MASTER PATIENT INDEX/PATIENT DEMOGRAPHICS (MPI/PD)

USER MANUAL

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Department of Veterans Affairs
V*IST***A** System Design and Development

Preface

Master Patient Index/Patient Demographics (MPI/PD) was developed to initialize active patients to the Master Patient Index (MPI) and to establish the framework for the sharing of patient information between sites. During the process of initialization to the Master Patient Index, each active patient receives an Integration Control Number (ICN), a CIRN Master of Record (CMOR), and a Treating Facility List of the sites where the patient is receiving care. Your site becomes part of the network of sites that share key demographic data for patients via HL7 messaging. Master Patient Index **V***IST***A** (MPI) and Patient Demographics (PD) are distributed and installed together. This manual covers the functionality in both packages.

MPI/PD was originally part of the Clinical Information Resource Network (CIRN) project. CIRN was to be a three phase project consisting of Phase 1: Pre Implementation (site clean-up), Phase 2: Master Patient Index/Patient Demographics (Master patient Index seeding for VHA-wide patient identification and patient demographics synchronization), and Phase 3: CIRN Clinical Repository. Master Patient Index/Patient Demographics is now a separate, independent package. Due to its beginnings, you will still notice many references to CIRN such as shared name and number spaces, option names, package terminology, etc. The clinical repository is also a separate, independent project now called Health Data Repository.

Reference Material

MPI/PD manuals include:

CIRN Patient Demographics (CIRN-PD) Pre-Installation and Implementation Guide
Master Patient Index/Patient Demographics (MPI/PD) Installation and Implementation Guide
Master Patient Index/Patient Demographics (MPI/PD) Technical Manual,
Master Patient Index/Patient Demographics (MPI/PD) User Manual,
Master Patient Index/Patient Demographics (MPI/PD HL7 Interface Manual,

You should also become familiar with the Master Patient Index (MPI **V***IST***A**) documentation. MPI manuals include:

Master Patient Index (MPI) **V***IST***A** *HL7 Interface Specifications*
Master Patient Index (MPI) **V***IST***A** *User Manual*
Master Patient Index (MPI) **V***IST***A** *Technical Manual*
Master Patient Index (MPI) **V***IST***A** *Monograph*
Master Patient Index (MPI) **V***IST***A** *Release Notes*

One of the major pre-implementation tasks is the merging of duplicate patient records at a site. The *Duplicate Record Merge: Patient Merge (Patch XT*7.3*23) User Manual* is required for this task.

NOTE: Patches XT*7.3*49, RG*1*6, and RG*1*10 allow sites with MPI/PD to resolve duplicate records. If you do not have these patches installed, it is recommended that the option to merge patient records be placed out of order.

Because of the close interaction of MPI/PD with other packages, the user may find it helpful to review documentation for **V***IST***A** Health Level 7 (HL7) V. 1.6, updates to the Patient Information Management

System (PIMS) V. 5.3 Admission-Discharge-and Transfer (ADT) module documentation, Run Time Library V. 2.1, and Extensible Editor V. 2.6.

Master Patient Index/Patient Demographics (MPI/PD) User Manual Revision 1 March 2001

This revision includes all functionality changes introduced in the following patches:

Patch	Brief Summary	Status
RG*1*2	Enhances the CMOR Score Status option [RGCIRN CMOR STATUS]	Released 10/12/99
DG*5.3*240	Treating Facility/Patient Merge Name	Released 12/10/99
RG*1*1	Exception Message Enhancements	Released 1/20/00
MPIF*1*1	CIRN Exception Handling, Local ICNs, and changes the real-time connection with the MPI to no longer give a list of potential matches during the three PIMS options.	Released 3/29/00
MPIF*1*2	Protocol update for HL*1.6*57 & HL*1.6*54	Released 3/29/00
MPIF*1*3	Direct Connect/Inactivate ICN/Load to MPI/Local ICN	Released 7/7/00
RG*1*3	Exception Handling option	Released 5/16/00
DG*5.3*261	CPRS Remote Data Views	Released 5/12/00
RG*1*4	CPRS Remote Data Views	Released 7/20/00
DG*5.3*255	Patient Data Review changes	Released 6/19/00
MPIF*1*4	MPI Direct Connect link to support DNS	Released 7/7/00
MPIF*1*5	PROTOCOL CHANGES for subscriber multiple field	Released 7/7/00
MPIF*1*6	CMOR Change Request	Released 7/7/00
MPIF*1*7	ACK on for MPIF ICN-A02 SERVER and Local/Missing Job Fix	Released 8/1/00
DG*5.3*295	Stop Auto-updating of Addresses	Released 8/24/00
RG*1*7	Stop Auto-updating of Addresses	Released 8/24/00
DG*5.3*316	Treating Facility List in Support of Facility Integrations	Released 9/5/00
RG*1*5	Facility Integration	Released 9/5/00
DG*5.3*307	CMOR History field/Exception Messages /Display Only Query on Patient Data Review	Released 10/2/00
RG*1*8	Sending Facility Format/Exception Messages	Released 10/2/00

XT*7.3*49	CIRN Aware Duplicate Record Merge	Released 10/17/00
RG*1*6	CIRN Aware Duplicate Record Merge	Released 10/17/00
RG*1*9	Facility Integration Follow-up	Released 11/7/00
DG*5.3*329	ICN History Correction	Released 11/16/00
RG*1*11	MPI/PD Exception Message Screening	Released 11/21/00
MPIF*1*8	ACK Timeout, Potential Match Display, Display Only Query, and ACKs	Released 11/28/00
RG*1*10	Duplicate Record Merge fix	Released 12/11/00
MPIF*1*12	Corrects wrong CMOR Assignment	Released 12/12/00
MPIF*1*10	Stops patients with Potential Match exceptions from going up in the Local/Missing ICN Resolution job	Released 1/3/01
RG*1*14	MPI/PD-CPRS Remote Data Views Correction	Released 2/27/01
RG*1*15	MPI/PD-CPRS Remote Data Views Correction	Released 2/27/01
DG*5.3*333	Patient Data Review Enhancements	Released 3/01
RG*1*12	Exception Handling Enhancements	Released 3/01
RG*1*16	MPI/PD Status Display option	Released 3/01

1. The purpose and focus of the package have changed resulting in a name change from Clinical Information Resource Network (CIRN) to Master Patient Index/Patient Demographics (MPI/PD). The Preface, Introduction and portions of the Processing Registrations sections have been revised to reflect the changes.

2. Patches XT*7.3*49, RG*1*6, and RG*1*10 allow sites with MPI/PD to resolve duplicate records. If you do not have these patches installed, it is recommended that the option to merge patient records be placed out of order.

3. The External Relations table (page 9) of packages, version numbers, and patches required for installation of MPI/PD has been updated.

4. The Edit Merge Parameter [RG MERGE EDIT PARAMETER] option has been been deleted from the Patient Merge Utilities [RG MERGE PATIENT] option on the CIRN Patient Admin Coordinator Menu [RG ADMIN COORD MENU].

5. The fields that are synchronized at the MPI and treating facilities and that trigger messaging have changed.

6. The rules for updating data elements have changed.

7. The Patient Not Found, Inconsistent Data, and CIRN Address Change bulletins have been removed.

8. The HL7 Site POC mail group has been added. Suggested membership for MPIF Exceptions and

MPIF HL7 Group have changed.

9. There have been several changes to the Patient Data Review screens and process. Users have more opportunities for reviewing/verifying the patient information. Fewer fields trigger the Patient Data Review and subsequent auto updating of other sites.

10. On the CIRN Patient Admin Coordinators Menu, the PM Patient Merge Utilities ... [RG MERGE PATIENT] menu and the Edit Merge Parameter [RG MERGE EDIT PARAMETER] option have been removed and PDR Patient Data Review [VAFC EXCEPTION HANDLER] is now the first option.

11. The following menu options used for Exception Handling have been added to the CIRN Patient Admin Coordinators Menu:
    MSG Message Exception Menu ... [RG EXCEPTION MENU]
        View Potential Match Patient [RG EXCEPTION POTENTIAL MATCH]
        CIRN Exception Handling [RG CIRN EXCEPTION HANDLING]
        Treating Facility Inquiry [RG EXCEPTION TF INQUIRY]
    DSP MPI/PD Status Display option [RG STATUS DISPLAY]

12. Documentation of these new options has been added.

13. Appendix B – Exception Handling has been replaced by a separate Exception Handling document that can be found on the MPI/PD web site, http://vista.med.va.gov/mpi_pd/index.html. This document contains updated information on Exception messages, their resolution, and the Exception Handling option (RG*1*3, RG*1*7, and RG*1*12). It will be kept up-to-date as changes occur.

14. Appendix C - Patient Data Review is now Appendix B – Patient Data Review and has been updated to reflect changes in the key fields that trigger update messages from the CMOR site to the MPI and Treating Facilities.

15. Appendix D – Flow Charts is now Appendix C – Flow Charts and has been updated.

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Introduction

Background

The Veterans Health Administration (VHA) is in the process of restructuring its health care delivery system, moving from a model focused on independent medical facilities to a model based on Veteran Integrated Service Networks (VISNs). Corresponding changes in requirements for VISN-wide clinical data services have resulted in a need for this package.

Principals and Objectives

The objectives of the project are to create an index that uniquely identifies each active patient treated by the Veterans Administration and to identify the sites where a patient is receiving care. This is crucial to the sharing of patient information across sites.

Functionality

The initial synchronization of key Patient file (#2) information (for active, shared patients) with the Master Patient Index and with the patient's treating facilities is an important step in the implementation of the software. The initialization process transfers the Integration Control Number (ICN), CIRN Master of Record (CMOR), and Treating Facility list for each patient to the patient's record in the Veterans Health Information Systems and Technology Architecture (**V***IST***A**) Patient file at all sites where the patient has been treated.

Patient Record Integration

The patient record integration activities are responsible for identifying and maintaining information needed to successfully share patient data between sites. Whenever key patient demographic information for a shared patient changes, a message with the changes is sent to the patient's CMOR where the changes are accepted or rejected. If accepted, the updates are broadcast to all treating facilities for that patient.

*Distinguishing MPI (Austin) from MPI (**V***IST***A**)*

MPI (Austin) refers to the actual index located at the Austin Automation Center (AAC). MPI (**V***IST***A**) refers to the software that resides in **V***IST***A** and sends patient data to the MPI (Austin) and to sites where a patient has been seen. These terms [i.e., MPI (Austin) and MPI (**V***IST***A**)] are used throughout this manual only when it is not obvious which component of the MPI the documentation is referring to.

The Master Patient Index Overview

The Master Patient Index (MPI Austin) assigns and maintains unique patient identifiers, known as integration control numbers (ICNs) that link patients to their records across VHA systems. It also contains the CIRN Master of Record (CMOR), and a current list of treating facilities subscribing to a patient's data.

When a patient is first seen at a site for care (the site has not previously treated the patient) or the patient did not get an ICN during the initialization phase, a real-time query is generated to the MPI when using the Register a Patient or Load/Edit Patient Data or 10-10T Registration options. If the patient is not known to the MPI, the patient's identifying information —name, SSN (unless pseudo or not available), date of birth, mother's maiden name, place of birth state and place of birth city— is passed to the MPI. If the patient is not already known to the MPI, the MPI assigns an integration control number (ICN) and assigns the requesting site as the CMOR. If the patient is already known to the MPI, the MPI returns the patient's ICN, CMOR, and the list of known treating facilities. The requesting site sends a message to the CMOR to be added as a treating facility and the updated treating facility list is sent to all treating facilities and the MPI.

Each site will have a block of local ICNs assigned for automatic use in the event that the MPI cannot be reached. When local ICNs are assigned to patients, background processing ensures that they are processed against the MPI as soon as possible. It will also process any missing ICNs for new patients added to the Patient file by means other than Load/Edit and Registration and 10-10T Registration. If the patient is not known to the MPI (new patient), the MPI will assign a new ICN and the site will be the CMOR. If the patient is already known to the MPI (exact match), the MPI will return the ICN, CMOR, and list of treating facilities. If the MPI finds more than one potential match, a local ICN is assigned and an exception is logged for human resolution using the CIRN Exception Handling option. The locally assigned ICN will be stored as part of the patient record in the ICN History.

CIRN Master of Record

The CIRN Master of Record (CMOR) is the designated "owner" of the patient's descriptive and clinical data. A patient will have only one CMOR at a time. The designation as the CMOR for a patient does not provide "workload credit" or any other distinction.

Several new fields having to do with the CMOR have been added to the Patient file (#2): CIRN Master of Record (#991.03), CMOR Activity Score (#991.06), and Score Calculation Date (#991.07). These fields are populated by the system.

During the Pre-Implementation phase, a CMOR score based on activity (Current FY, FY-1, FY-2) was calculated for the active patients in your Patient file. The CMOR score indicates to the Master Patient Index (MPI) which patients in your Patient file are active. During initialization of your database with the MPI, the first site at which the MPI encounters a patient will be assigned as the CMOR. Following the initialization with the MPI, your site will run an option that identifies the shared patients for which you are **not** the CMOR, compares the CMOR scores, and reassigns the CMOR if that action is appropriate.

Other Facility Categories

A facility's relationship to the patient determines what information it receives and sends. MPI/PD maintains this information to ensure proper routing of patient data.

Treating Facilities

Any facility where a patient registers for care (regardless of VISN) is placed on the Treating Facility List. This list is part of the patient descriptive data that is synchronized.

Changes to certain patient descriptive data that are made at a treating facility trigger a message to the CMOR. Depending on the data type, all sites (including the CMOR) may be updated automatically; the CMOR accepts or rejects the changes and may broadcast an update message to all treating facilities, subscribers, and the MPI.

Subscribers

A patient's subscription list is maintained and synchronized at each site where the patient is known. A site "subscribes" in order to receive a patient's descriptive and/or clinical data from other sites. Sites can only activate/deactivate subscriptions themselves except in cases of automatic subscription (as a treating facility upon registration of a patient known elsewhere). When patient messages are generated at a site, they are routed to the subscribers on the list for that patient. The subscription mechanism can also be used to maintain VISN-wide aggregates, longitudinal research databases, etc. The package contains a clinical subscription category that is reserved for future use.

The subscription list differs from the Treating Facility list in that subscribers do not need to be Treating Facilities. Subscribers that are not also designated as treating facilities may deactivate their subscription by entering an expiration date. For treating facilities, a subscription with an infinite expiration date is implied. They may not deactivate from descriptive subscriptions.

Descriptive Subscriptions

Descriptive subscriptions receive changes to patient demographic information including CMOR changes and updates to the subscription and treating facilities lists. Descriptive subscribers can request a change in status if they wish to also receive clinical repository data. The descriptive subscription list for a patient is synchronized across subscribing sites.

Effects of Patient Registration

When a shared patient registers at your facility, a registration message is sent to the CMOR and clinical and descriptive subscriptions for that patient are created for your site. The CMOR then broadcasts a message to update the lists of other subscribers.

Orientation

Conventions

Refer to the **V***IST***A** User's Guide to Computing for information about general computing and your computer system. The following conventions are standard in **V***IST***A** packages:

Return or Enter key

The return or enter key tells the computer that you have finished with a prompt and are ready to go to the next prompt (whether or not you have entered any information). Press the return key after every response when you wish to bypass a prompt, or to accept a default. In a word processing field, two returns are needed to tell the computer that you are done.

If you are unsure whether or not you pressed enter/return, press a letter key. If the letter displays on the screen, you have not pressed enter. Backspace to erase the letter and press enter. If the letter does not display, you have pressed enter. Wait until the letter displays at the next prompt, and be sure to delete it before you continue.

When shown in the documentation, <**RET**> refers to pressing the return or enter key.

Help at a menu

? A question mark will show the menu.

?? Two question marks will show the menu with technical information about the options.

??? Three question marks will give brief descriptions of the menu options.

Help at a field

? One question mark will usually produce a message explaining what information is being requested or how it should be entered.

?? Two question marks will usually cause detailed instructions and/or a list of choices to appear.

If given a list, the user can choose a selection by entering either the name or number of the selection. If a long entry is being entered from a list, only the first few letters of the entry need to be typed.

Please do not use "??" to see all the possibilities on the prompts - "Patient:" or "Limit to:". The computer will try to find all the patients or dictionary terms in the database. This is a long and meaningless search.

Anytime a search list is longer than the space on the screen a message will inform you of the number of additional list items. You press <RET> to continue viewing the search list.

If the computer has a long search to make, it will display a message that it is "Searching".

If you are given a choice list such as patient list, term list, or device list, a line asking "Enter Selection:" will appear. You enter the number of the choice you want to use.

Enter Selection: 2 <RET>

Pressing "?" at the Enter Selection prompt will help you navigate the selections.

If you can select more than one item, separate them with semi-colons. Using commas will result in an error message.

Default//

For prompts containing a default answer or previously entered information (i.e., "Do you want to change the release status? N//" or "WT LBS: 165//"), the user may accept the default selection by entering a return or may type in a new answer followed by a return.

Space Bar Return

A **V***IST***A** convention re-enters the last selection made at a particular level (e.g., at a submenu, enters the last submenu option accessed; when used at a field, re-enters whatever was last entered in that field) when the space bar and return is entered.

Caret (^)

The up caret (^) can be used in several ways:

An up-caret can signal the program that you want to exit whatever level you are at.

Entering an ^ will halt the generation of a list in a Help message.

^field name

Entering ^ and a field name allows you to jump from one field to any other field within the same option.

^^ A double ^^ allows you to "rubber band" from the option where you are working to another option and then return back to the original option/prompt.

Deleting information:

@ Entering the @ symbol in a field will delete information previously entered there. As a safeguard the system will always ask if you really want to delete the data.

dots (...)

Three dots seen after a menu option, indicate that the option has a submenu.

Queuing

Queuing is a method of ordering a delayed printout from your printer. At the "DEVICE" prompt, enter the letter **Q** to pull up QUEUE TO PRINT ON. The system will prompt for "DEVICE" again; this time input your printer device number or name; it will also prompt for the "RIGHT MARGIN"; input as usual. The next prompt is "REQUEST TIME TO PRINT"; input a time or date/time, which will print the report at a low-use period. Use the **?** at this prompt to see various methods of inputting times.

Many local site managers prefer to have reports, which are not urgently needed queued to print out in the off-hours.

Package Management

Name and Number Spaces

The package namespace is RG, excluding RGED (reserved for Extensible Editor) and RGUT (reserved for Run Time Library) and the file range is 990-995 and 997-999.99. (File range 996-996.99 is reserved for Extensible Editor.)

External Relations

The following packages (fully patched) must be installed at the site:

> ***CAUTION!!***
> **DO NOT INSTALL HL*1.6*39 in any TEST account!**
> If you install this patch in your test account, you will link your test account to all the other production accounts. Since there are similarities (e.g., patient names/data) in test and production, it would not be good for data from the test account to be transmitted to the production account at another site.

Application	Version # and Patches
CIRN	Version 0.5 fully patched
Scheduling	Version #5.3 SD*5.3*185
PIMS	Version #5.3 fully patched
HL7	Version #1.6 fully patched **NOTE:** Place HL*1.6*39 in Production account only
MailMan	Version #7.1 XM*DBA*115
KERNEL	Version #8 fully patched
KERNEL Toolkit	Version #7.3 fully patched
VA FileMan	Version # 22 fully patched
Extensible Editor	Version 2.6
Run Time Library	Version 2.1
Pharmacy	If current version of Inpatient Medications is V. #4.5: PSJ*4.5*43 If current version of Outpatient Pharmacy is V. #6.0: PSO*6*156 If running Computerized Patient Record System (CPRS), and current version of Outpatient Pharmacy is V. #7.0: PSO*7*11

NOTE: If you are a Caché site and are planning to use a multi-threaded listener (which is recommended), you will need patch XU*8.0*78.

Legal Requirements

This package does not impose any additional legal requirements on the user. All users are reminded that many of the reports generated by this package contain confidential patient information and should be treated accordingly.

Site Parameters Related to Patient Administration

- **Site Parameters Edit for CMOR [MPIF SITE PARAMETER]**

  Your site can select whether requests for a change to a patient's CMOR will be processed automatically or placed in a review file for manual processing. If you select MANUAL, mail messages will be sent to the mail group entered in "New Request Mailgroup" whenever change requests are received. You do not get a message if you select AUTOMATIC.

```
Type of Processing: MANUAL// ??
     Based on this field setting, any CMOR change request received
     from another station can either be manually reviewed or automatically
     approved.
     Choose from:
       0        MANUAL
       1        AUTOMATIC
Type of Processing: MANUAL// <RET>
New Request Mailgroup: MPIF CMOR REQUEST// ??
     If the CMOR Request Change parameter is set to manual, new CMOR change
     requests received will notify the mailgroup entered in this field.  This
     gives a means of prompting someone to review the new request.
New Request Mailgroup: MPIF CMOR REQUEST // <RET>
```

Other Site Parameters affecting MPI/PD are described in the *Master Patient Index/Patient Demographics (MPI/PD) Installation and Implementation Guide*

Bulletins

RG CIRN DEMOGRAPHIC ISSUES: This bulletin controls the sending of the following patient related and Master File update bulletins.

Patient Related Bulletin	Cause	Action to take
MISSING DATA	Name, Date of Birth (DOB), or Integration Control Number (ICN) field is missing or null in the incoming message.	Contact National **V***IST***A** Support (NVS) Help Desk for assistance.
REMOTE SENSITIVITY INDICATED	Patient is marked as sensitive at the sending site but not at receiving site.	No action: message is informational

REMOTE DEATH INDICATED	Patient has a date of death entered from the sending site but not at the receiving site.	No action: message is informational

The Master File Update bulletins going to MPI Austin differ from the patient related bulletins in that the data being passed is different.

Exception Handling Messages

The exception handler generates messages to alert the user of problems that occur in generating or processing HL7 messages. See the Exception Handling document on the MPI/PD web site for examples of messages that may be received during the implementation phase and how to resolve the problems.

MPI/PD Mail Groups

Mailgroup	**Suggested Coordinator**	**Suggested Members**
RG CIRN DEMOGRAPHIC ISSUES	Patient Admin Coordinator/Medical Administration Service (MAS) Automated Data Processing Application Coordinator (ADPAC)	Personnel that deal with patient data.
RG CIRN HL7 PROBLEMS	Person who will monitor MPI/PD HL7 problems.	Person who will monitor MPI/PD HL7 problems.
MPIF EXCEPTIONS	Information Resource Management (IRM) person who will be monitoring the technical type problems that can occur during messaging.	Remote mail group G.CIRN EXCEPTION MGT@FORUM.VA.GOV as the only recipient. The exception will be resolved by MPI/PD team members or by NVS. The site should not have any local members entered in this mail group.
MPIF CMOR REQUEST	Person who will monitor CMOR Change Requests.	Personnel that will process CMOR Change Requests.
MPIF HL7 GROUP	IRM Staff	No members should be placed in this mail group. This group is used to transmit HL7 messages to the MPI via MailMan.
HL7 SITE POC	Person who will monitor MPI/PD HL7 problems.	Person who will monitor MPI/PD HL7 problems.

Preparation

Prior to your site installation, MAS and/or IRM will have cleaned up your database so that the package can work effectively.

1. Cleaned up Pseudo-SSNs
Updating active veteran patients' missing or pseudo-SSN was necessary in order to interface optimally with the MPI. Having the correct SSN for active patients will also provide benefit for inpatient and outpatient workload transmissions to Austin.

2. Insured Test patients have "5 leading zero" SSNs
National databases will ignore all patients with five leading zeros in the SSN field. The software also ignores these patients during the process of initializing your site's Patient file with the Master Patient Index (MPI).

3. Insured that all local Eligibility Codes were mapped to a National Eligibility Code
This step reduces the probability that anomalous Eligibility information will be passed to other sites in which the patient receives care.

4. Merged Duplicate Records
Merging duplicate patient records at each site allowed consolidation of patient information and lessened the effort needed when processing against the MPI.

5. Updated/Standardized the Marital Status & Religion files
Part of the Pre-Implementation phase included the updating of the Marital Status and Religion files to (1) insure all National standard entries are present, (2) delete the non-standard entries.

6. Cleaned up Inconsistent Data
Patient record inconsistencies were diagnosed and cleaned up prior to initializing against the MPI.

CMOR Score

Prior to initialization with the MPI, a CMOR score was calculated for each active patient in your file. Active is defined as having activity over the last three years (current FY-2) excluding test entries. The CMOR score flags the active patients to be processed against the MPI for assignment of an ICN, CMOR site, and a treating facility list.

After MPI initialization, the CMOR score is used to compare a patient's activity at two sites to help determine the logical CMOR. The CMOR score is stored in the Patient file along with the date last calculated. It can be recalculated as needed. The scores are calculated based on the following:

PATIENT ACTIVITY INDICES	TIMEFRAME	CMOR POINTS
Outpatient Visits	Current FY	30 points
	FY (-1)	20 points
	FY (-2)	10 points
Appointments with Stop Code 323 (Primary Care)	Any Appts	50 (additional) points
Admissions	Current FY	50 points
	FY (-1)	40 points
	FY (-2)	30 points
Current (active) / New Prescriptions		20 points
Lab Tests	Last 12 months	10 points
X Rays	Last 12 months	20 points
Fee Basis	FEE Authorization (To Date) on or after 1/1/96	0

Comparison of CMORs assigned by the MPI

The Begin CMOR Comparison option finds all patients with an ICN for which your site is a treating facility but is not the CMOR. It sends a batch HL7 message to the CMOR sites requesting that the two sites' CMOR Activity Score be compared. Processing of these requests is done as a background job on the CMOR system. The following rules are used to determine the CMOR for each patient in the message:

As each patient is found on the non-CMOR system, a check is done to see if the score calculation date is older than 90 days, the score is recalculated for that patient, and the DPT fields are updated.

- If the score calculation date on CMOR is older than 90 days, the CMOR's score is recalculated and the DPT fields are updated.
- If the incoming score is greater than the CMOR's score and the difference is greater than 80%, the patient's CMOR is updated to the new site and an A31 Change CMOR message is issued to all subscribers including the MPI.
- If the incoming score equals the CMOR's score or is close according to rules, nothing happens.
- If the incoming score is less than the CMOR's score, nothing happens.

The CMOR Comparison menu is found on the CIRN Initialization menu.

Processing Registrations

Background

During start-up, the active patients in your Patient file (#2) were each given an Integration Control Number (ICN), a CIRN Master of Record (CMOR), and a list of treating facilities at which the patient is known. This information was also stored in the Master Patient Index (Austin) and is synchronized across sites for a given patient. Additional fields added to the Patient file to support MPI/PD include the following:

Integration Control Number (#991.01)
ICN Checksum (#991.02)
CIRN Master of Record (#991.03)
Locally Assigned ICN (#991.04)
Subscription Control Number (#991.05)
CMOR Activity Score (#991.06)
Score Calculation Date (#991.07)
subDD: 2.0992 ICN History Sub-Field

Auditing

Patch DG*5.3*149 added new cross references to some of the Patient file (#2) fields to assist MPI/PD in monitoring changes made to these fields. During the normal daily operations of MPI/PD, it is possible that these fields may be updated by CIRN HL7 Messaging. Patch DG*5.3*231, exported with the CIRN Patient Demographics/Master Patient Index build, enables auditing for the following fields so they can be monitored by MPI/PD. A post installation step turns auditing on for the Name (#.01) field also. It is very important that the auditing of these fields (especially Name) remains on.

A ** denotes a key field (in addition to Name and the fields mentioned above) that will be synchronized across sites. The list of key fields is subject to change.

**Sex
**Date of Birth
Marital Status
Religious Preference
**Social Security Number
Street Address [Line 1]
Zip+4
Street Address [Line 2]
Street Address [Line 3]
City
State
County
Phone Number [Residence]
Phone Number [Work]
K-Name of Primary NOK
K-Phone Number

**Mother's Maiden Name
Service Connected?
Service Connected Percentage
Employment Status
Period of Service
Date of Death
Type
Veteran (y/n)?

The DG Security Log file (#38.1), Field #2 Security Level is also monitored for changes to patient sensitivity.

Rules

The general rules for updating data elements are as follows.

- In some fields, the data must match an entry in another file (e.g., The user must enter a valid entry from the State file (#5) when filling in the State field of the Patient file (#2).)
- If data has been deleted from a key field, the delete will be applied to the patient record if the message came from the CMOR. When the message is from a non-CMOR the delete will take place when the CMOR merges the patient data during the data review process.
- Those fields on the Patient Data Review that are "Display Only" (those pertaining to Eligibility) do not get updated even when the message is coming from the CMOR.
- Changes to the Name field are automatically accepted at the CMOR and a message is sent to automatically update other treating facilities and the MPI.

Note: The Name field is automatically updated only if it has been **changed** at another site. You may notice patient Data Reviews showing the name different from what your file contains. The remote site may have changed other patient data that triggered the Patient Data review but not edited the Name field. You may choose to accept this difference and it will be broadcast to the other treating facilities and the MPI or you may choose to reject it.

- Changes to the other key fields will be sent to the CMOR. The CMOR will either accept or reject the changes. If accepted, the CMOR broadcasts the changes to all treating facilities for the patient and the MPI. The changes are made automatically. If the CMOR rejects the updates, a message is sent to the registering site automatically updating those fields in that Patient file with the CMOR information.
- Changes to certain non-key fields are also sent to the CMOR. The CMOR may accept or reject the changes for it's own Patient file but does not notify or update other sites.
- A change to the Patient's Name (#.01) data field made at any site triggers an automatic update at all treating facility sites, including *and through* the CMOR. The Name field is changed automatically because of an underlying assumption that the patient making this change at a site is providing the most current information. The only patient demographic data field that is updated automatically at the CMOR, the MPI, and all treating facilities is the patient Name.
- Changes to the following data fields, used by the Master Patient Index (MPI), are broadcast to the MPI and all treating facilities once the CMOR has processed the entry in the patient data review file. Whether or not the CMOR accepts a change to any of these fields, the most current CMOR data are broadcast. The four data fields are Sex (#.02), Date of Birth (#.03), SSN (#.09) and Mother's Maiden Name (.2403).

Registration

Registration (adding and editing) will fit one of the following four situations.

Existing patient for which you are the CMOR

At the end of the registration process, messages are sent to all sites where the patient is known and to the MPI. These messages update the date of last activity and changes to the key descriptive data.

Existing patient for which you are not the CMOR

At the end of the registration process, a message is sent to the CMOR adding your site to the treating facility list, the date of last activity, and changes to the key descriptive data. Your site will be added to the patient's treating facility list. The CMOR broadcasts the accepted key field changes to the other sites where the patient is known. If some of your key descriptive changes are not accepted, the CMOR sends a message to your site to update your information with theirs.

Patient known elsewhere

If the patient being registered is a new patient at your site (not in your existing Patient file), a query is sent to the Master Patient Index. If the MPI finds an exact match or only one potential match, the patient will be considered "found" and the data from the MPI will be used. If the MPI finds more than one potential match, a local ICN is assigned and an exception is logged for human resolution using the CIRN Exception Handling option.

Once the patient has been assigned a national ICN, a message is sent to the CMOR adding your site to the treating facility list, the date of last activity, and changes to the key descriptive data. Your site will be added to the patient's treating facility list. The CMOR broadcasts the accepted changes in key fields to the other sites where the patient is known. If some of your descriptive changes are not accepted, the CMOR sends a message to your site to update your information with theirs.

New patient not known in VHA

If you add a patient to your Patient file using the Load/Edit, 10-10T, Pre-Registration, or Registration options, a query is sent to the Master Patient Index. The MPI will automatically add the patient if no exact or potential match was found. The MPI will assign an ICN and the requesting site will be designated as the CMOR. Since you are the first site within the VHA at which the patient is known, you will be the only treating facility.

Patient Registration Load/Edit if the MPI is Unavailable.

If the MPI is unavailable, a unique local ICN is assigned, the first three numbers of which are the station number. The local facility is assigned as the primary facility until background processing against the MPI occurs. If the MPI finds an exact match for the patient, it assigns the known ICN and stores the locally assigned ICN in the ICN History multiple, updates the CMOR entry, and sends appropriate messages to the CMOR. If no potential match is found, the MPI assigns an ICN as the permanent ICN, stores the locally assigned ICN in the ICN History multiple for that patient, and adds your site as the CMOR. If the MPI finds more than one potential match, a local ICN is assigned and an exception is logged for human resolution using the CIRN Exception Handling option.

Patient Registration Examples

Some changes have been made in the various registration screens. The connection to the MPI message and results are displayed after the " PATIENT SERVICE CONNECTED?" prompt. Once the patient is in your Patient file and has been initialized with the MPI (has a national Integration Control Number), the only difference that will display is the page heading information showing the CMOR site.

Note: During the registration process, the patient will be checked against the entries in the MPI to determine if the patient is known elsewhere. The list of possible matches returned by the MPI may contain names that are completely different from what was entered. The MPI look-up will show those patients who are possible matches to Name and Date of Birth.

Adding a New Patient Using the Registration Option

Note: The following captures are included to illustrate the changes that will be seen on the screen when registering a patient. These changes are shown in bold, italicized text. The captures should not be used as a guide on how prompts should be answered. For this reason, replies to prompts are not shown in bold.

```
VIC    Veteran ID Card Menu ...
          ADT Outputs Menu ...
          Bed Control Menu ...
          Beneficiary Travel Menu ...
          Contract Nursing Home RUG Menu ...
          Data Card Menu ...
          Eligibility Inquiry for Patient Billing
          MAS Code Sheet Manager Menu ...
          Patient Inquiry
          PTF Menu ...
          Registration Menu ...
          RUG-II Menu ...
          Supervisor ADT Menu ...

Select ADT Manager Menu Option: REGistration Menu


   DA     Disposition an Application
   EN     Patient Enrollment
          10-10T Registration
          Add/Edit/Delete Catastrophic Disability
```

```
          Collateral Patient Register
          Delete a Registration
          Disposition Log Edit
          Edit Inconsistent Data for a Patient
          Eligibility Inquiry for Patient Billing
          Eligibility Verification
          Load/Edit Patient Data
          Means Test User Menu ...
          Patient Inquiry
          Preregistration Menu ...
          Print Patient Wristband
          Register a Patient
          View Registration Data

Select Registration Menu Option: REGister a Patient


Select PATIENT NAME: VETERAN,TESTING MPI
   ARE YOU ADDING 'VETERAN,TESTING MPI' AS A NEW PATIENT (THE 259TH)? No// Y
  (Yes)
   PATIENT SEX: F FEMALE
   PATIENT DATE OF BIRTH: 030240  (MAR 02, 1940)
   PATIENT SOCIAL SECURITY NUMBER: 111111111
   PATIENT TYPE: SC VETERAN
   PATIENT VETERAN (Y/N)?: Y YES

   ...searching for potential duplicates

   No potential duplicates have been identified.

   ...adding new patient

   Please enter the following additional information:
     .
   PATIENT SERVICE CONNECTED?: Y  YES

Attempting to connect to the Master Patient Index in Austin...

Patient was not found in the MPI...

Adding Patient to Master Patient Index...


VETERAN,TESTING MPI                    111-11-1111              MAR 2,1940
================================================================================
                    CIRN MASTER OF RECORD: SAN FRANCISCO
Address: STREET ADDRESS UNKNOWN         Temporary: NO TEMPORARY ADDRESS
         UNK. CITY/STATE
 County: UNSPECIFIED                      From/To: NOT APPLICABLE
  Phone: UNSPECIFIED                        Phone: NOT APPLICABLE
 Office: UNSPECIFIED
```

```
Primary Eligibility: UNSPECIFIED
Other Eligibilities:



Status      : PATIENT HAS NO INPATIENT OR LODGER ACTIVITY IN THE COMPUTER

Future Appointments: NONE

Remarks:

Select Admitting Area: ^
Do you want to enter Patient Data? Yes// N  (No)

Checking data for consistency...

===> 10 inconsistencies found in 0 seconds...

===> 10 inconsistencies filed in 0 seconds...


VETERAN,TESTING MPI (111-11-1111)                                  MAR 2,1940
================================================================================
5  - MARITAL STATUS UNSPECIFIED         6  - RELIGION UNSPECIFIED
8  - ADDRESS DATA INCOMPLETE            12 - SC% UNSPECIFIED FOR SC VET
13 - POS UNSPECIFIED                    14 - ELIG CODE UNSPECIFIED
52 - INSURANCE PROMPT UNANSWERED        53 - EMPLOYMENT STATUS UNANSWERED
55 - INCOME DATA MISSING**              99 - CAN'T PROCESS FURTHER

Inconsistencies followed by two (2) asterisks [**] must be corrected by
using the appropriate MAS menu option(s).

All items not followed by an asterisk can be edited at this time.  If these
items are not corrected at this time, a bulletin will be sent to the
appropriate hospital personnel.

DO YOU WANT TO UPDATE THESE INCONSISTENCIES NOW? Yes// N  (No)

Initial notification message sent...

Is the patient currently being followed in a clinic for the same condition? N
  (No)

Is the patient to be examined in the medical center today? Yes// N  (No)


Registration login date/time: NOW// N  (NOV 16, 1998@09:36)
TYPE OF BENEFIT APPLIED FOR: 5  NURSING HOME CARE
TYPE OF CARE APPLIED FOR: 5  ALL OTHER
FACILITY APPLYING TO: SAN FRANCISCO//           662
REGISTRATION ELIGIBILITY CODE: HUMANITARIAN EMERGENCY
         //                        6       6   NON-VETERAN

Updating eligibility status for this registration...


  NEED RELATED TO AN ACCIDENT: N  NO
  NEED RELATED TO OCCUPATION: N  NO
```

```
REASON CANCELED/DECLINED: TESTING

Enter the reason the veteran is declining or cancelling enrollment.
Choose from:
1        DISSATISFIED WITH CARE
2        GEOGRAPHIC ACCESS
3        OTHER INSURANCE
4        OTHER


REASON CANCELED/DECLINED: 4  OTHER
CANCELED/DECLINED REMARKS: TESTING

PREFERRED FACILITY: SAN FRANCISCO// <RET>

Patient is NOT enrolled in the VA Patient Enrollment System...
   Enrollment Date    : NOV 16, 1998
   Enrollment Status  : CANCELED/DECLINED
   Enrollment Priority: -none-
   Preferred Facility : SAN FRANCISCO

PRINT 10/10? Yes// N  (No)
PRINT DRUG PROFILE? Yes// N  (No)
ROUTING SLIP? Yes// N  (No)

Download VIC data? No// N  (No)
```

Registering a New Patient Using the 10-10T Registration Option

```
Select Registration Menu Option: 10-10t registration


Select PATIENT NAME: CVETERAN,TENTENT TEST
   ARE YOU ADDING 'VETERAN,TENTENT TEST' AS A NEW PATIENT (THE 260TH)? No// Y
(Yes)
   PATIENT SEX: M MALE
   PATIENT DATE OF BIRTH: 040650  (APR 06, 1950)
   PATIENT SOCIAL SECURITY NUMBER: 333333333
   PATIENT TYPE: SC VETERAN
   PATIENT VETERAN (Y/N)?: Y YES

   ...searching for potential duplicates

   No potential duplicates have been identified.

   ...adding new patient

   Please enter the following additional information:
     .
   PATIENT SERVICE CONNECTED?: Y  YES

Attempting to connect to the Master Patient Index in Austin...

Patient was not found in the MPI...
Adding Patient to Master Patient Index...
```

```
---Patient: Eligibility, Demographic---
   Emergency Contact and Military Service
STREET ADDRESS [LINE 1]: 1010 TEST STREET
STREET ADDRESS [LINE 2]:
CITY: JACKSONVILLE
STATE: CALIFORNIA
ZIP+4: 90999
COUNTY:   MADERA        039
PHONE NUMBER [RESIDENCE]:
PHONE NUMBER [WORK]:
MARITAL STATUS: MARRIED
K-NAME OF PRIMARY NOK:
E-NAME:
SERVICE BRANCH [LAST]:
SERVICE NUMBER [LAST]:
POW STATUS INDICATED?:  U        UNKNOWN
AGENT ORANGE EXPOS. INDICATED?: N  NO
RADIATION EXPOSURE INDICATED?: N  NO
ENVIRONMENTAL CONTAMINANTS?: N  NO
DISABILITY RET. FROM MILITARY?: N  NO
SERVICE CONNECTED?: YES// <RET>
SERVICE CONNECTED PERCENTAGE: 10
RECEIVING A&A BENEFITS?: N  NO
RECEIVING HOUSEBOUND BENEFITS?: N  NO
RECEIVING A VA PENSION?: Y  YES
PRIMARY ELIGIBILITY CODE: SC LESS THAN 50%       3       3   VETERAN
Select ELIGIBILITY: SC LESS THAN 50%// <RET>
  ELIGIBILITY: SC LESS THAN 50%// <RET>
Select ELIGIBILITY:
PERIOD OF SERVICE:VIETNAM ERA              (7)          (2/28/61-5/7/75)

---Marital---
MARRIED LAST CALENDAR YEAR: YES// N  NO

---Income---
LAST YEAR'S ESTIMATED "HOUSEHOLD" TAXABLE INCOME: 50000

---Insurance---
COVERED BY HEALTH INSURANCE?: N  No

---HINQ Inquiry---

---Consistency Checker---

Checking data for consistency...

===> 4 inconsistencies found in 0 seconds...

===> 4 inconsistencies filed in 0 seconds...


VETERAN,TENTENT TEST (333-33-3333)                              APR 6,1950
================================================================================
6  - RELIGION UNSPECIFIED               45 - VA PENSION MISSING DOLLARS
53 - EMPLOYMENT STATUS UNANSWERED       55 - INCOME DATA MISSING**

Inconsistencies followed by two (2) asterisks [**] must be corrected by
using the appropriate MAS menu option(s).
```

```
All items not followed by an asterisk can be edited at this time.  If these
items are not corrected at this time, a bulletin will be sent to the
appropriate hospital personnel.

DO YOU WANT TO UPDATE THESE INCONSISTENCIES NOW? Yes// N  (No)

Initial notification message sent...

At this time you may Register the patient if he or she is present and
seeking care.  Answer 'No' if this was a mail-in application.

Would you like to Register the patient? YES// <RET>

Select Admitting Area:

Is the patient currently being followed in a clinic for the same condition?

    Enter 'Y' if the patient is being followed in clinic for condition for
which registered, 'N' if not.

Is the patient currently being followed in a clinic for the same condition? N
  (No)

Is the patient to be examined in the medical center today? Yes// N  (No)


Registration login date/time: NOW// N  (NOV 16, 1998@09:56)
TYPE OF BENEFIT APPLIED FOR: 5  NURSING HOME CARE
TYPE OF CARE APPLIED FOR: 5  ALL OTHER
FACILITY APPLYING TO: SAN FRANCISCO// <RET>          662
REGISTRATION ELIGIBILITY CODE: SC LESS THAN 50%// <RET>       3       3
VETERAN

Updating eligibility status for this registration...

SC% AT REGISTRATION: 10// <RET>

  NEED RELATED TO AN ACCIDENT: N  NO
  NEED RELATED TO OCCUPATION: N  NO

Do you wish to enroll in the VA Patient Enrollment System? YES// NO

REASON CANCELED/DECLINED: 2  GEOGRAPHIC ACCESS

PREFERRED FACILITY: SAN FRANCISCO// <RET>

Patient is NOT enrolled in the VA Patient Enrollment System...
   Enrollment Date    : NOV 16, 1998
   Enrollment Status  : CANCELED/DECLINED
   Enrollment Priority: 3
   Preferred Facility : SAN FRANCISCO

PRINT 10/10? Yes// N  (No)
PRINT DRUG PROFILE? Yes// N  (No)
ROUTING SLIP? Yes// N  (No)

Download VIC data? No// N  (No)
```

Adding a New Patient via Load/Edit Patient Data

```
 Select Registration Menu Option: LOAD/Edit Patient Data



Select PATIENT NAME: TESTING,LOAD EDIT
   ARE YOU ADDING 'TESTING,LOAD EDIT' AS A NEW PATIENT (THE 267TH)? No// Y
  (Yes)
   PATIENT SEX: F FEMALE
   PATIENT DATE OF BIRTH: 090843  (SEP 08, 1943)
   PATIENT SOCIAL SECURITY NUMBER: 444-44-4444
   PATIENT TYPE: SC VETERAN
   PATIENT VETERAN (Y/N)?: Y YES

   ...searching for potential duplicates

   No potential duplicates have been identified.

   ...adding new patient

   Please enter the following additional information:
     .
   PATIENT SERVICE CONNECTED?: Y  YES

Attempting to connect to the Master Patient Index in Austin...

Patient was not found in the MPI...

Adding Patient to Master Patient Index...


TESTING,LOAD EDIT                        444-44-4444              SEP 8,1943
================================================================================
                     CIRN MASTER OF RECORD: SAN FRANCISCO
Address: STREET ADDRESS UNKNOWN         Temporary: NO TEMPORARY ADDRESS
         UNK. CITY/STATE
 County: UNSPECIFIED                      From/To: NOT APPLICABLE
  Phone: UNSPECIFIED                        Phone: NOT APPLICABLE
 Office: UNSPECIFIED

Primary Eligibility: UNSPECIFIED
Other Eligibilities:



Status      : PATIENT HAS NO INPATIENT OR LODGER ACTIVITY IN THE COMPUTER

Future Appointments: NONE

Remarks:
Do you want to enter Patient Data? Yes// N  (No)

Checking data for consistency...

===> 10 inconsistencies found in 0 seconds...

===> 10 inconsistencies filed in 0 seconds...
```

```
TESTING,LOAD EDIT (444-44-4444)                                    SEP 8,1943
================================================================================
5  - MARITAL STATUS UNSPECIFIED         6  - RELIGION UNSPECIFIED
8  - ADDRESS DATA INCOMPLETE            12 - SC% UNSPECIFIED FOR SC VET
13 - POS UNSPECIFIED                    14 - ELIG CODE UNSPECIFIED
52 - INSURANCE PROMPT UNANSWERED        53 - EMPLOYMENT STATUS UNANSWERED
55 - INCOME DATA MISSING**              99 - CAN'T PROCESS FURTHER

Inconsistencies followed by two (2) asterisks [**] must be corrected by
using the appropriate MAS menu option(s).

All items not followed by an asterisk can be edited at this time.  If these
items are not corrected at this time, a bulletin will be sent to the
appropriate hospital personnel.

DO YOU WANT TO UPDATE THESE INCONSISTENCIES NOW? Yes// N  (No)

Initial notification message sent...

Download VIC data? No// <RET>  (No)
```

Patient selected via Load/Edit, you can see the MPI connection does not happen but the CMOR is still displayed.

```
Select PATIENT NAME:    TESTING,LOAD EDIT         09-08-43     444-44-4444
YES
     SC VETERAN


TESTING,LOAD EDIT                        444-44-4444              SEP 8,1943
================================================================================
                    CIRN MASTER OF RECORD: SAN FRANCISCO
Address: STREET ADDRESS UNKNOWN          Temporary: NO TEMPORARY ADDRESS
         UNK. CITY/STATE
 County: UNSPECIFIED                       From/To: NOT APPLICABLE
  Phone: UNSPECIFIED                         Phone: NOT APPLICABLE
 Office: UNSPECIFIED

Primary Eligibility: UNSPECIFIED
Other Eligibilities:


Status      : PATIENT HAS NO INPATIENT OR LODGER ACTIVITY IN THE COMPUTER

Future Appointments: NONE

Remarks:
Do you want to edit Patient Data? Yes// <RET>  (Yes)

              PATIENT DEMOGRAPHIC DATA, SCREEN <1>
TESTING,LOAD EDIT; 444-44-4444                                    SC VETERAN
================================================================================
[1]    Name: TESTING,LOAD EDIT              SS: 444-44-4444  DOB: SEP 8,1943
[2]   Alias: NO ALIAS ON FILE FOR THIS APPLICANT
[3] Remarks: NO REMARKS ENTERED FOR THIS PATIENT
```

```
[4] Permanent Address:                    [5] Temporary Address:
         STREET ADDRESS UNKNOWN                      NO TEMPORARY ADDRESS
         UNK. CITY/STATE
 County: UNANSWERED                          County: NOT APPLICABLE
  Phone: UNANSWERED                           Phone: NOT APPLICABLE
 Office: UNANSWERED                         From/To: NOT APPLICABLE



<RET> to CONTINUE, 1-5 or ALL to EDIT, ^N for screen N or '^' to QUIT: ^

Checking data for consistency...

===> 10 inconsistencies found in 0 seconds...

===> 10 inconsistencies filed in 0 seconds...


TESTING,LOAD EDIT (444-44-4444)                                   SEP 8,1943
================================================================================
5  - MARITAL STATUS UNSPECIFIED         6  - RELIGION UNSPECIFIED
8  - ADDRESS DATA INCOMPLETE            12 - SC% UNSPECIFIED FOR SC VET
13 - POS UNSPECIFIED                    14 - ELIG CODE UNSPECIFIED
52 - INSURANCE PROMPT UNANSWERED        53 - EMPLOYMENT STATUS UNANSWERED
55 - INCOME DATA MISSING**              99 - CAN'T PROCESS FURTHER

Inconsistencies followed by two (2) asterisks [**] must be corrected by
using the appropriate MAS menu option(s).

All items not followed by an asterisk can be edited at this time.  If these
items are not corrected at this time, a bulletin will be sent to the
appropriate hospital personnel.

DO YOU WANT TO UPDATE THESE INCONSISTENCIES NOW? Yes// N  (No)
Do you wish to return to Screen #9 to enter missing Income Data? ? YES// NO

Last notification message was sent 'NOV 16,1998'  [TODAY]

No new message sent since it's been less than 7 days since last message
and no new inconsistencies were found...

Download VIC data? No// <RET>  (No)
```

Pre-Registration of a Known Patient

```
Select Registration Menu Option: PREregistration Menu


   CALL   Display Preregistration Call List
   OUT    Outputs for Preregistration ...
   SU     Supervisor Preregistration Menu ...
          Patient Inquiry
          Preregister a Patient

Select Preregistration Menu Option: PREregister a Patient
Select Patient to Preregister: VETERAN,JAMES         07-09-50     222222222
YES     SC VETERAN


VETERAN,JAMES                              222-22-2222              JUL 9,1950
================================================================================
                     CIRN MASTER OF RECORD: SAN FRANCISCO
Address: 879 MAIN STREET                 Temporary: NO TEMPORARY ADDRESS
         TROY,NY 12018
 County: RENSSELAER (083)                  From/To: NOT APPLICABLE
  Phone: 5553456789                          Phone: NOT APPLICABLE
 Office: UNSPECIFIED

Primary Eligibility: SC LESS THAN 50% (NOT VERIFIED)
Other Eligibilities:
--------------------------------------------------------------------------------
[PRE-REGISTER DATE:]  NONE ON FILE
--------------------------------------------------------------------------------



Status      : PATIENT HAS NO INPATIENT OR LODGER ACTIVITY IN THE COMPUTER
Enter RETURN to continue or '^' to exit:


VETERAN,JAMES                              222-22-2222              JUL 9,1950
================================================================================
                     CIRN MASTER OF RECORD: SAN FRANCISCO


Future Appointments: NONE

Remarks:
Do you want to edit Patient Data? Yes// N  (No)

Checking data for consistency...

===> 1 inconsistency found in 0 seconds...

===> 1 inconsistency filed in 0 seconds...

VETERAN,JAMES (222-22-2222)                                          JUL 9,1950
================================================================================
55 - INCOME DATA MISSING**

Inconsistencies followed by two (2) asterisks [**] must be corrected by
using the appropriate MAS menu option(s).
```

```
Last notification message was sent 'DEC 31,1998'  [122 - Days ago]

Reminder message sent...
  Net Annual Income Thresholds on NOV 16,1998:
     Num. Dependents:    0 (Self)         1          2          3          4
     Net Income:            13190     15744     17148     18552     19956

Do you wish to add a copay test at this time? NO// <RET>

STATUS OF CALL: CONNECTED// CONNECTED

Date/Time stamp this patient? YES// <RET>
```

Patient Inquiry

```
Select Registration Menu Option: PATIENT Inquiry

Select PATIENT NAME:VETERAN,JAMES         07-09-50     222222222     YES
SC VETERAN

VETERAN,JAMES                            222-22-2222              JUL 9,1950
================================================================================
                    CIRN MASTER OF RECORD: SAN FRANCISCO
Address: 879 MAIN STREET                Temporary: NO TEMPORARY ADDRESS
         TROY,NY 12018
 County: RENSSELAER (083)                 From/To: NOT APPLICABLE
  Phone: 5183457689                         Phone: NOT APPLICABLE
 Office: UNSPECIFIED

Primary Eligibility: SC LESS THAN 50% (NOT VERIFIED)
Other Eligibilities:



Status      : PATIENT HAS NO INPATIENT OR LODGER ACTIVITY IN THE COMPUTER

Future Appointments: NONE

Remarks:
```

Summary of Patient Update Message Flow

Receiving Messages

If you are the CMOR, you receive update messages from other treating sites. The data is placed in a review file for manual processing. The Name field will be updated automatically and an update message is sent to the other treating facilities and the MPI. You may select the other changes to be accepted or rejected. If changes are accepted for the key fields (see page 15 or Appendix B), your system sends an "official" update message to all subscribing sites and the MPI. Changes to other fields will update only your own Patient file (#2).

If you are not the CMOR, you will receive "official" update messages from the patient's CMOR. The information in the message will be used to automatically update the key fields (see page 15 or Appendix B) in your Patient file.

Sending Messages

If you are the CMOR your site will be sending the "official" update message to other treating facilities, subscribers, and the MPI.

If you are not the CMOR, your site will be sending update request messages to the CMOR for approval. Results of the CMOR review will be broadcast as the "official" update message.

Patient Sensitivity

If a shared patient is flagged as sensitive at one of the treating sites, a bulletin is sent to the RG CIRN DEMOGRAPHIC ISSUES mail group at each subscribing site telling where, when, and by whom the flag was set. Each site can then review whether the circumstances meet the local criteria for sensitivity flagging.

Patient Admin User Menu

The Patient Admin User menu provides a Patient Information Management System (PIMS) option for dealing with patient update data coming to the CMOR from other sites. It also contains several MPI options to handle requests for changing the CMOR.

Menu

CIRN Master Menu

PRE CIRN Pre-Implementation Menu ... [RGPR PRE-IMP MENU]
NTL CIRN Initialization Menu ... [RGINIT MENU]
IRM CIRN IRM Menu ... [RG IRM MENU]
CORD CIRN Patient Admin Coordinator Menu [RG ADMIN COORD MENU]
ADU CIRN Patient Admin User Menu ... [RG ADMIN USER MENU]
Patient Data Review [VAFC EXCEPTION HANDLER]
CIRN Master of Record (CMOR) Request ... [MPIF CMOR MGR]
Batch Review Requests [MPIF BATCH REVIEW]
Display CIRN Master of Record Request [MPIF VIEW REQUEST]
New CMOR Change Request [MPIF NEW REQUEST]
Received Requests Report [MPIF RECEIVED REQUESTS]
CIRN Master of Record Request Review [MPIF REVIEW REQUEST]
Sent Request Report [MPIF SENT REQUESTS]
Edit CMOR Change Request [MPIF EDIT REQUEST]

Patient Data Review Option

This is a new PIMS option that resides only in this package. The option is used by the CMOR to review and merge demographic data coming from other sites that have not been automatically updated in your Patient file (#2). (See page 15 and Appendix B.) When a message comes from a patient's CMOR, data in the key fields (Sex (#.02), Date of Birth (#.03), SSN (#.09) and Mother's Maiden Name (.2403)) will automatically update the data at the receiving facility.

The ordering of the demographic data messages as they arrive from a particular site is essential. In general, as newer data for the same patient, from the same sending facility arrives it will be retained and made available for the data review. Older data will be assigned a status of "Retired Data." The exception to this is that if the old data has a status of "DE" (Data Examined) the newer data does not replace it. Data for the same patient from other sites will all be available.

The general rules for updating data elements are as follows.

- In some fields, the data must match an entry in another file (e.g., The user must enter a valid entry from the State file (#5) when filling in the State field of the Patient file (#2).)
- If data has been deleted from a key field, the delete will be applied to the patient record if the message came from the CMOR. When the message is from a non-CMOR the delete will take place when the CMOR merges the patient data during the data review process.
- Those fields on the Patient Data Review that are "Display Only" (those pertaining to Eligibility) do not get updated even when the message is coming from the CMOR.
- Changes to the Name field are automatically accepted at the CMOR and a message is sent to automatically update other treating facilities and the MPI.

Note: The Name field is automatically updated only if it has been **changed** at another site. You may notice patient Data Reviews showing the name different from what your file contains. The remote site may have changed other patient data that triggered the Patient Data review but not edited the Name field. You may choose to accept this difference and it will be broadcast to the other treating facilities and the MPI or you may choose to reject it.

- Changes to the other key fields will be sent to the CMOR. The CMOR will either accept or reject the changes. If accepted, the CMOR broadcasts the changes to all treating facilities for the patient and the MPI. The changes are made automatically. If the CMOR rejects the updates, a message is sent to the registering site automatically updating those fields in that Patient file with the CMOR information.
- Changes to certain non-key fields are also sent to the CMOR. The CMOR may accept or reject the changes for it's own Patient file but does not notify or update other sites.
- A change to the Patient's Name (#.01) data field made at any site triggers an automatic update at all treating facility sites, including *and through* the CMOR. The Name field is changed automatically because of an underlying assumption that the patient making this change at a site is providing the most current information. The only patient demographic data field that is updated automatically at the CMOR, the MPI, and all treating facilities is the patient Name.
- Changes to the following data fields, used by the Master Patient Index (MPI), are broadcast to the MPI and all treating facilities once the CMOR has processed the entry in the patient data review file. Whether or not the CMOR accepts a change to any of these fields, the most current CMOR data are broadcast. The four data fields are Sex (#.02), Date of Birth (#.03), SSN (#.09) and Mother's Maiden Name (.2403).

The goals of the CMOR site are to keep data current and accurate and to keep selected data moving so all treating facility sites and the MPI are sharing current and accurate patient data. Attention to the quality of data entry at every site will benefit the patient everywhere he or she receives care.

When the Patient Data Review option is selected, a list of patient updates awaiting review is displayed. This list is initially sorted in date order, beginning with the most recent event first. Each entry on the list contains the following information:

Patient name
SSN
Date of birth
Site this information came from
Date the event took place at the sending site
Current upload status

```
PIMS Demographic Merge        Nov 01, 2000 16:44:47          Page: 1 of 1
                        Reviews(s) currently on file.

     Patient          SSN         DOB         Stat  Evt. DT.     From
1    SERIOUS, SAM     111111111   01-01-1942  DE    10-20-2000   DETROIT
2    SERIOUS, SAM     111111111   01-01-1942  AR    10-20-2000   DETROIT
3    SERIOUS, SAM     111111111   01-01-1942  AR    10-20-2000   DETROIT
4    SERIOUS, SAM     111111111   01-01-1942  AR    10-19-2000   DETROIT
5    RUGGED, ROBERT   222222222   01-01-1945  DE    07-26-2000   MIDDLE TENNESS
6    SERIOUS, SAM     111111111   01-01-1942  DE    07-14-2000   DETROIT, MI


           Enter ?? for more actions
SP  Select Patient         SS  Sort by Site          SN  Sort by Newest
SOL Sort by Oldest         P   Sort by Patient
```

```
Select Action:Quit// sp   Select Patient
Select Patient(s):  (1-11): 1
```

Status Types

The fourth column of the Patient Data Review screen shows the current status of the review for that patient.

This Status…		Means:
AR	Action Required	This entry has not been reviewed.
BR	Being Reviewed	This entry is currently under review.
DE	Data Examined	This entry has been reviewed, but is not yet complete.
DR	Data Rejected	Incoming data has been reviewed and rejected.
MC	Merge Complete	This entry has been reviewed and has been deemed complete.
RD	Retired Data	This entry has been replaced by newer data from the same sending facility.

Action Functionality

The Action choices give the user flexibility in viewing the screen.

This Action…		Allows you to:
P	Sort by Patient	Resort the list on the summary screen by the patient.
SS	Sort by Site	Resort the list on the summary screen by the sending site.
SOL	Sort by Oldest	Resort the list on the summary screen by the oldest event date.
SN	Sort by Newest	Sort the list with the newest event dates first. This is the default sort upon entering the option.
SP	Select Patient	Review the data for possible merging. A one/many/all selection is available at this point.

When a user selects to review an entry from the summary screen using SP, a complete list of all the transmitted data will be displayed. The data on file at your site is shown on the left and the data from the remote site is shown on the right. If a difference is noted by the system, two asterisks (**) will appear on the left side of the number selection. An arrow (->) tells you that the data in this field was edited at the remote site.

Eligibility data from both sites is displayed on the screen, however, they are not updated or changed by the merge action.

```
Demographic Merge          Sep 23, 1998 15:18:41          Page: 1 of  3
   1   Name: SERIOUS, SAM                          SERIOUS, SAM
   2    SSN: 111-11-1111                           111-11-1111
** 3    DOB: 01-01-1942                            01-02-1942
** 4    DOD: 07-07-1987                            <Data Deleted>

-> 5 Address:
       213 GUSTY DRIVE                            800 MAIN ST
       <No Data Found>                            <Data Deleted>
       <No Data Found>                            <Data Deleted>
   6   City: BUTLER                               BUTLER
   7  State: PENNSYLVANIA                         PENNSYLVANIA
** 8  Zip+4: 16001-1394                           16001
   9 County: BUTLER                               BUTLER
  10 Home #: 555-1212                             555-1212
+         ** = Different, ->  = Edited, <UR> = Unresolved
MS Selective Merge        UN (Undo Merge)    DO MPI Display Only Query
RJ Reject Merge           HI Hinq Inquiry    TF Treating Facility Inq
MA Merge All Differences  AUD Patient Audit
MC Merge Completed        PI  Patient Inquiry
Select Action: Next Screen// <RET>  NEXT SCREEN
```

```
Demographic Merge          Sep 23, 1998 15:18:41          Page:  2 of  3
  11 Work #: 555-1213                             555-1213
  12          Sex: MALE                             MALE
**13      Marital: UNKNOWN                          MARRIED
  14     Religion: LUTHERAN                         LUTHERAN
  15 Mom's Maiden: JOLLY                            JOLLY
  16  Employ Stat: EMPLOYED FULL TIME               EMPLOYED FULL TIME
  17     NOK Name: SILLY SAL                        SILLY SAL
**18  NOK Phone #: (724)555-1212                    <Data Deleted>

**        Type: NON-VETERAN (OTHER)                 EMPLOYEE
       Veteran: NO                                  NO

            SC: NO  SC%: N/A                        NO  <Data Deleted>
           POS: VIETNAM ERA                         VIETNAM ERA
+         ** = Different, ->  = Edited, <UR> = Unresolved
MS Selective Merge        UN (Undo Merge)    DO MPI Display Only Query
RJ Reject Merge           HI Hinq Inquiry    TF Treating Facility Inq
MA Merge All Differences  AUD Patient Audit
MC Merge Completed        PI  Patient Inquiry
Select Action: Next Screen//<RET>  NEXT SCREEN
```

```
Demographic Merge             Nov 01, 2000 16:46:01       Page: 3 of  3
SERIOUS,SAM                   DOB: 01-01-1942    DOD: 07-07-1987
Last Local Edit: 10/17/00 10:45:26 am  DETROIT Event Date: 10-20-2000
+              Local Data                         DETROIT
Prim Elig Code: EMPLOYEE                          EMPLOYEE
**Date Verified: MAR 25, 1984                     Mar 25, 1984
  Verification method:
  CONTACTED RO                                    CONTACTED RO
  Who verified: ROY,JERRY                         <Not Available>
  Other Eligibility: EMPLOYEE                     <Not Available>

+         ** = Different, ->  = Edited, <UR> = Unresolved
MS Selective Merge        UN (Undo Merge)    DO MPI Display Only Query
RJ Reject Merge           HI Hinq Inquiry    TF Treating Facility Inq
```

```
MA Merge All Differences  AUD Patient Audit
MC Merge Completed        PI  Patient Inquiry
Select Action: Quit// <RET>
```

Data Displays, Identification of Differences & Fields Edited

This symbol…	Means:
**	There is a difference between the CMOR's record and the incoming update message, but the site that sent the update message did not edit the data.
->	Data, which is different AND was edited by the site that sent the update message.
UR	If the Patient Review Screens cannot resolve data that has come from another site, the option displays what was sent (even though it could not be resolved). There will be no change to the patient database when any Merge patient action is completed for this field.

Actions

This action…		Allows you to:
MS	Selective Merge	Select only the fields you want to merge. Fields you choose not to merge will be rejected. Complete your selections on **all** screens. You must then use MC to merge the selected fields into your file.
MA	Merge All Differences	Select all of the data elements that are different for this patient's demographics. You must then use MC to merge them into your file.
MC	Merge Completed	Merge those fields chosen on **all** screens and mark that particular demographic entry as being completed or finished, no further evaluation is needed. It will also cause that entry to be removed from the summary screen. Merge Complete cannot be undone with the Undo Merge action.
RJ	Reject Merge	Mark all demographic data as being rejected and does not allow the merging of this data. The entry will be removed from the summary screen. If an update to a key field is rejected, the CMOR's data is transmitted to the MPI and to all Treating Facility sites for the patient. Reject Merge cannot be undone with the Undo Merge action.
UN	Undo Merge	Undo certain data merges (MS & MA) that have been made while you are still working on the same entry. If you have moved on to another patient entry, previous merges cannot be undone. Note that "undo" does not work on the "reject merge" or "merge completed" actions.
AUD	Patient Audit	Print information from the Audit file (#1.1) for a selected patient and date range. For the Patient file (#2) entry selected, the report displays the patient name and DFN, date/time the field was edited, the field edited, the user who made the change, the old value, and the new value.
HI	Hinq Inquiry	Make a Hinq inquiry to verify information. (The user will need the appropriate security key and "5000 series" registration number in File 200.)

PI	Patient Inquiry	Allows the user to do a Patient Inquiry without leaving the screen.
DO	MPI Display Only	Allows the user to see what information the MPI has for this patient without leaving this screen.
TF	Treating Facility Inquiry	Displays the treating facility list for the patient being reviewed and includes the CIRN activity score, date last treated at each facility and the ICN history. The Treating Facility Inquiry action is described on page 57.
Q	Quit	Returns the user to the summary screen.

CIRN Master of Record (CMOR) Request Menu

The CIRN Master of Record (CMOR) Request menu is part of the MPI application and resides in MPI/PD. Its purpose is to give sites the tools needed to request and approve changes to a patient's CMOR.

The CIRN Master of Record (CMOR) is the designated "owner" of the patient's descriptive and clinical data and plays a major role in the distribution of descriptive and clinical data to subscribers. A patient will have only one CMOR at a time. Typically, the CMOR for a particular patient should be that site where the patient has the most activity/receives the most care. The designation as the CMOR for a patient does not provide "workload credit" or any other distinction.

A patient's CMOR may change for many reasons: the patient moved to a new location, VISN organization of services, changes in the patient's care needs, etc. The CMOR should move with the patient when there is change in the site where the patient will be receiving care for an extended period of time i.e.,(specialized care, seasonal migration, etc). A comparison of CMOR scores can be used as an indication of the appropriate CMOR, however, it should not override such indications as patient request or future appointments. A request to change a patient's CMOR may be initiated by either the patient's new care site or the patient's current CMOR. Changing the CMOR requires agreement between the two sites involved.

Using the CIRN Master of Record Request Options

CIRN Master of Record (CMOR) Request

Batch Review Requests
Display CIRN Master of Record Request
New CMOR Change Request
Received Requests Report
CIRN Master of Record Request Review
Sent Request Report
Edit CMOR Change Request

The CIRN Master of Record (CMOR) Request menu options allow sites to request or approve a change of CMOR. The options are discussed here by related function (request or approval) rather than in the order that they appear on the menu.

Requesting a Change of CMOR

New CMOR Change Request

Use the New CMOR Change Request option to request a change in the CMOR. You will see one of the following two scenarios depending on whether or not you are the current CMOR for the patient being processed.

```
REQUEST NUMBER: 500-3
PATIENT: VETERAN,JOHN Q      07-03-60     027886655     YES     SC VETERAN
REASON FOR REQUEST: Patient request
REQUESTER PHONE NUMBER: 555-555-5555
-
Since this patient belongs to your site,
select the site you wish to transfer this patient to.
-
SEND REQUEST TO: TEST SITE A
Select Request Action (SEND/EDIT/DELETE)? SEND// <RET>
.. Request will be sent
```

If your site is not the CMOR

```
Select CIRN Master of Record: NEW CMOR Change Request
REQUEST NUMBER: 500-12
PATIENT: Veteran,Jane A          01-01-40     705010140P     NO
COLLATERAL

REASON FOR REQUEST: MOVED TO THIS AREA
                  REQUESTOR PHONE NUMBER: 301-427-3739//<RET>
Select Request Action (SEND/EDIT/DELETE)? SEND// SEND
.. Request will be sent
```

- Select Patient
- If you are the current CMOR, you can select a site you wish to transfer ownership to. If you are not the current CMOR the site default selection is your institution. The CMOR can only be transferred to a subscribing site.
- Enter reason/justification/comment for transfer
- If you **are not** the current CMOR:
  A request containing Patient ID, person requesting change, person's phone #, date/time stamp, requesting site, patient, justification/comments is sent to the current CMOR.
- If you **are** the current CMOR:
  A request is sent to the site you have selected as the logical CMOR. This request contains Patient ID, person requesting change, person's phone #, date/time stamp, CMOR, justification/comments.

Edit CMOR Change Request

If the New CMOR Change Request option is interrupted abnormally (your computer connection fails) prior to sending the request, the request has a status of open and can be edited and sent using this option. Once you have sent the request, it cannot be edited.

Sent Request Report

The Sent Request Report option produces a list of requests you have made but have not received a response on. Note that you are asking to see requests that you made **before** the date entered, not after the date entered.

```
Select CIRN Master of Record (CMOR) Request Option: sent Request Report
Do you only want to list your requests? YES// n  NO
Display requests entered on or before date: T-2//  <RET> (APR 27, 1999)
DEVICE: <RET>  UCX/TELNET    Right Margin: 80//
Pending CMOR Requests                          APR 29,1999  16:44    PAGE 1
Request                                                        Date
Number      Requested By          Patient                      Requested
-------------------------------------------------------------------------------

        STATION: ALBANY TESTING  (501A)
500-3       TESTER,TOMMY          MAIDEN,MARY                  SEP 24,1998
    Reason: Patient request
        STATION: ALBANY, NY (500)
500-21      CHECKER,CHARLES      PRATTLE,PETER  (0101)        OCT  3,1998
    Reason: moving
        STATION: ALTOONA, PA (503)
500-22      ADPAC,ARTHUR          AGILE,ANDREW (5555)         OCT  6,1998
    Reason: TEST
        STATION: ANN ARBOR (506)
500-28      DEVELOPER,DREW       ROADS,ROCKY (5678)           SEP  8,1998
    Reason: Patient request
        STATION: BAY PINES, FL (516)
500-27      SUPPORT,SALLY        LUCKY,LUCY (2345)            FEB 25,1998
    Reason: CHANGE OF ADDRESS
        STATION: DETROIT, MI (553)
500-5       MASCLERK,MARGARET    TIMID,TIMOTHY (2222)         SEP 28,1998
    Reason: Patient request
```

Processing Received Requests

Received Requests Report

You can print a report of the requests you have received from other sites before reviewing them. Once you have approved or disapproved a request it will not appear on this report.

```
Select CIRN Master of Record (CMOR) Request Option: received Requests Report
DEVICE:  <RET> UCX/TELNET    Right Margin: 80// <RET>
Pending CMOR Requests                          DEC 14,1998  14:01    PAGE 1
Request                                                        Date
Number      Requested By          Patient                      Requested
------------------------------------------------------------------------------

           Request From: DETROIT, MI
500-12      REQUESTER,RICHARD     VETERAN,JOE (1111)      OCT 16,1998
    Reason: MOVED TO THIS AREA
           Request From: SAN FRANCISCO-CIOFO
500-19      RESPONDER,ROBERT      VETERAN,JANE (6666)     FEB  5,1998
    Reason: Change by PCMM software
```

Display CIRN Master of Record Request

Use this option if you wish to review a specific request without approving or disapproving it.

```
Select CIRN Master of Record Request Option: Display CIRN Master of Record
Request

Select Request #: 500-1          09-20-96      APPROVED
DEVICE: <RET> UCX/TELNET    RIGHT MARGIN: 80// <RET>


SEP 24,1998                View of CMOR Request {SENT}                500-1
------------------------------------------------------------------------------
 Requested by: REQUESTER,RICHARD.                  Date: SEP 20,1998 (0)
  Phone (req): 7480
      Patient: VETERAN,JOHN Q                 Type: REQUESTED FROM
       Status: APPROVED                                 ALLEN PARK, MI
(553)
  Reviewed by: AUTOMATIC PROCESSING                Date: SEP 20,1998
  Phone (rev):
------------------------------------------------------------------------------
Requester Comments:
    Patient moving to area
Reviewer Comments:


Select Request #: 500-2          09-20-96      DENIED
DEVICE:<RET>   UCX/TELNET    RIGHT MARGIN: 80// <RET>



SEP 24,1998                View of CMOR Request {SENT}                500-2
------------------------------------------------------------------------------
 Requested by: REQUESTER,RICHARD                  Date: SEP 20,1998 (0)
  Phone (req): 7480
```

```
      Patient: VETERAN,JOHN Q                  Type: TRANSFER TO
       Status: DENIED                                ALLEN PARK, MI
(553)

  Reviewed by: REQUESTER,RICHARD                Date: SEP 20,1998
  Phone (rev): NO WAY.
-------------------------------------------------------------------------------
Requester Comments:
  TEST CODE 2

Reviewer Comments:
```

Reviewing Requests

Use the Batch Review Requests or the CIRN Master of Record Request Review options to review requests and approve or disapprove them. You may process CMOR change requests by site or by patient. If by site, all requests for the site will be shown by patient. If processing by patient, it will list all requests for a given patient.

Disapproved request - marks the request in the CMOR's outstanding request file as rejected and notifies the original requester of the disapproval.

Approved request - updates CMOR field to new CMOR. If you are the new CMOR look for the request in your outstanding request file and mark it complete. If you are the relinquishing CMOR, check the outstanding request file and mark the request processed.

```
Select CIRN Master of Record Request Option: batch Review Requests
Do you want to approve by SITE? y  YES
Select Site: Allen PARK, MI                          553

DEC  9,1998            View of CMOR Request {SENT}     500-8
-------------------------------------------------------------------------------
 Requested by: REQUESTER,RICHARD                Date: SEP 28,1998 (0)
  Phone (req): 7480
      Patient: Veteran,John Q (3342)               Type: REQUESTED FROM
       Status: PENDING APPROVAL                         ALLEN PARK, MI
(553)
  Reviewed by: REQUESTER,RICHARD                Date: SEP 28,1998
  Phone (rev): 7777

Requestor Comments:
  Patient request

Reviewer Comments:

Select Review Action (APPROVE/DISAPPROVE)? DISAPPROVE
REVIEWER PHONE NUMBER: 301-427-3700
REVIEWER COMMENTS: MICHIGAN IS TOO COLD ... Done!
```

```
Select CIRN Master of Record Request Option: CIRN Master of Record Request
Review
```

```
Select CIRN Master of Record request to review: 500-8          09-28-98
PENDING APPROVAL     Veteran,John Q
DEVICE: <RET>  UCX/TELNET    RIGHT MARGIN: 80// <RET>


DEC  9,1998                View of CMOR Request {SENT}                500-8
------------------------------------------------------------
 Requested by: REQUESTER,RICHARD                   Date: SEP 28,1998 (0)
  Phone (req): 7480
Patient: Veteran,John Q (3342)                  Type: REQUESTED FROM
       Status: PENDING APPROVAL                              ALLEN PARK, MI
(553)
  Reviewed by: REQUESTER,RICHARD                   Date: SEP 28,1998
  Phone (rev): 7777
------------------------------------------------------------
Requestor Comments:
  TEST

Reviewer Comments:
  moving to area
Select Review Action (APPROVE/DISAPPROVE)? APPROVE
REVIEWER PHONE NUMBER: 301-427-3700// <RET>
REVIEWER COMMENTS: HAPPY TO OBLIGE ... Done!
```

CIRN Patient Admin Coordinator Menu

The Patient Admin Coordinator menu options allow control and monitoring of CMOR, subscription, and patient data activities.

CIRN Master Menu

PRE CIRN Pre-Implementation Menu ... [RGPR PRE-IMP MENU]
NTL CIRN Initialization Menu ... [RGINIT MENU]
IRM CIRN IRM Menu ... [RG IRM MENU]
CORD CIRN Patient Admin Coordinator Menu [RG ADMIN COORD MENU]
ADU CIRN Patient Admin User Menu ... [RG ADMIN USER MENU]

CORD CIRN Patient Admin Coordinator Menu

PDR Patient Data Review [VAFC EXCEPTION HANDLER]
GS Generate a Patient Subscription Request [RG SUBSCRIBE]
EQ CIRN Event Queue Class Statistics [RGEQ STATS]
SP Site Parameters Edit for CMOR [MPIF SITE PARAMETER]
CMOR CMOR User Menu ... [RGCIRN CMOR USER MENU]
IND Calculate Individual Patient CMOR Score [RGCIRN CMOR INDIV]
CSS CMOR Score Calculation Status [RGCIRN CMOR STATUS]
DRS Duplicate Record by CMOR Score [RGCIRN CMOR DUP SCORES]
STAT Duplicate Record Statistics [RGCIRN CMOR DUP STATS]
ADU CIRN Patient Admin User Menu ... [RG ADMIN USER MENU]
Patient Data Review [VAFC EXCEPTION HANDLER]
CIRN Master of Record (CMOR) Request ...[MPIF CMOR MGR]
Batch Review Requests [MPIF BATCH REVIEW]
Display CIRN Master of Record Request [MPIF VIEW REQUEST]
New CMOR Change Request [MPIF NEW REQUEST]
Received Requests Report [MPIF RECEIVED REQUESTS]
CIRN Master of Record Request Review [MPIF REVIEW REQUEST]
Sent Request Report [MPIF SENT REQUESTS]
Edit CMOR Change Request [MPIF EDIT REQUEST]
LOG Patient Audit Log Reports ... [RG TRAN/AUD AUD REP]
Patient Audit File Print [RGMT AUDIT PRINT]
Treating Facility List Statistics [RGMT AUDIT TF STATISTICS]
INQ Subscription Status Inquiry [RG SUBSCRIPT STAT INQ]
MPI Master Patient Index Menu ... [MPIF VISTA MENU]
Single Patient Initialization to MPI [MPIF IND MPI LOAD]
Display Only Query [MPIF DISPLAY ONLY QUERY TO MPI]
Inactivate Patient from MPI [MPIF PAT INACT]
Local/Missing ICN Resolution Background Job [MPIF LOC/MIS ICN RES]
MSG Message Exception Menu ... [RG EXCEPTION MENU]
View Potential Match Patient [RG EXCEPTION POTENTIAL MATCH]
CIRN Exception Handling [RG CIRN EXCEPTION HANDLING]
Treating Facility Inquiry [RG EXCEPTION TF INQUIRY]
DSP MPI/PD Status Display [RG STATUS DISPLAY]

Patient Data Review

The Patient Data Review option is discussed in detail in the Patient Admin User Menu section of this manual.

Generate a Patient Subscription Request

This option is used to manually register or change a patient subscription at the patient's CMOR. An HL7 Master Files Notification (MFN message) will be generated and submitted to the HL7 package for transmission. You might want to terminate your subscription if the patient has indicated that he has moved and will not be returning to the area; if the patient will only be in your area for a few months, you can enter a date at which the subscription will terminate; if you are currently a Descriptive subscriber (you get only demographic information) you can change to the Clinical and Descriptive category.

```
Select CIRN Patient Admin Coordinator Menu Option: GS  Generate
a Patient Subscription Request

Select your current institution: MIAMI, FL//  <RET>     FL    VAMC      546
Select PATIENT NAME:  VETERAN,JOHN Q         08-07-20     111111111
 YES     SC VETERAN    BM
The CMOR Site for this patient is BAY PINES, FL

     Select one of the following:

          0         Descriptive
          1         Clinical and Descriptive

Enter the TYPE of subscription: : Clinical and Descriptive// <RET>
Send subscription request to which institution? BAY PINES, FL//<RET>      516
Enter the ACTIVATION DATE/TIME: NOW// <RET> (APR 05, 1999@17:17)
Enter an optional TERMINATION DATE/TIME: <RET>

You are about to submit a PATIENT SUBSCRIPTION REQUEST
with the following information:

ORIGIN OF REQUEST: 546   NETWORK NODE: VAMIA

RECEIVER OF REQUEST: 516   NETWORK NODE: VABAY

SUBSCRIPTION TYPE: Clinical and Descriptive

PATIENT: VETERAN,JOHN Q

PATIENT ICN: 1000719981V316816

ACTIVATION DATE: Apr 05, 1999@17:17


Is this correct? ? YES// <RET>
```

CIRN Event Queue Class Statistics

This option produces a report by date of the number of events processed and number of events that produced an error. You will be interested in those that pertain to CMOR Requests and CMOR Results. This example shows that on April 3, 1999, there were two messages processed without error and on April 6 there was one. Had any of these messages had problems in transmission, they would show up in the Errors column. You would then know that you should resend those messages.

```
Select CIRN Patient Admin Coordinator Menu Option: 3  CIRN Event Queue Class
Statistics
* Previous selection: DATE not null
START WITH DATE: FIRST// <RET>
DEVICE: <RET>  UCX/TELNET    RIGHT MARGIN: 80// <RET>



CIRN Data Class Statistics                APR 20,1999  14:06    PAGE 1
<<<<  SHOULD GO ON FIRST LINE
TYPE                              PROCESSED    ERRORS
-------------------------------------------------------------------------------

        DATE: FEB 20,1999
CH_BL                                  114
                                  --------   --------
SUBTOTAL                               114          0
        DATE: FEB 21,1999
SCN_REQ                                  1
                                  --------   --------
SUBTOTAL                                 1          0
        DATE: MAR  7,1999
SCN_REQ                                  2
                                  --------   --------
SUBTOTAL                                 2          0
        DATE: MAR 15,1999
QRY                                      2
                                  --------   --------
SUBTOTAL                                 2          0

        DATE: APR  3,1999
MPIF CMOR RESULT                         1
MPIF CMOR REQUEST                        1
                                  --------   --------
SUBTOTAL                                 2          0
        DATE: APR  6,1999
MPIF CMOR REQUEST                        1
                                  --------   --------
SUBTOTAL                                 1          0
                                  --------   --------
TOTAL                                  122          0
```

CMOR Site Parameters Edit

This option allows editing of site parameters that affect the processing of CMOR requests. These parameters allow incoming CMOR requests to be processed manually or automatically and define a mail group for messages to alert you when a new request is received. If you choose to have the messages processed automatically, you will not receive notification that a request has been received or processed.

```
Select CIRN Master of Record Request Option: Site Parameters Edit
Type of Processing: MANUAL// <RET>
New Request Mailgroup: CMOR MAIL// <RET>
```

CIRN Master of Record Menu

IND Calculate Individual Patient CMOR Score
CSS CMOR Score Calculation Status
DRS Duplicate Record by CMOR Score
STAT Duplicate Record Statistics

Calculate Individual Patient CMOR Score

This option calculates a CMOR patient activity score for an individual patient. After it is calculated the score is filed in the Patient file. You can use this score as an indicator that the CMOR should be changed, however since the score is based on past activity, it should not override such reasons as the patient moved, requested the change, or has a future appointment at another site but not at your site.

```
Select CIRN Master of Record Menu: IND  Calculate Individual Patient CMOR
Score
Select PATIENT NAME:  Veteran,John Q      10-06-50     111111111     4A-MED
  472-29     MED/ORANGE/3D     YES     SC VETERAN            --    G

This patient has an existing CMOR score of 2480 calculated on OCT 8,1998.

Do you want to calculate and file a new score for this patient? NO// y  YES

Working.  Please standby...

CMOR Activity Score: 2480 filed for Veteran,John Q  ssn: 111111111.
```

CMOR Score Calculation Status

This option is used to check on the progress of the Start/Restart background job.

```
Select CIRN Master of Record Menu: CSS CMOR Score Calculation Status
The CIRN CMOR Activity Score Generator

There are 278309 records in your PATIENT file.
The last record number is 7317156.
Last Patient Processed: VETERAN,JOHN Q NMN   SSN: 111111111   [RECORD# 35]

The CMOR score initialization last started on OCT 8,1998@15:42:29
 has processed 1 records and IS RUNNING.
```

Stop CMOR Score Calculation

This option is used to stop the CMOR Score Calculation background job prior to its completion.

```
Select CIRN Master of Record Menu Option: HLT   Stop CMOR Score Calculation
This option will stop the CIRN CMOR patient activity score generation
after it has completed calculating and filing the score for the current
patient.

Are you sure you want to do this? N// YES

Stop patient activity score generation after the current patient? N// YES

CIRN CMOR patient activity generation is flagged to stop after it has
completed the current patient.  This may take a short time.  Please check
the status later.
```

Duplicate Record by CMOR Score

The Duplicate Record by CMOR Score option provides a listing of the CMOR scores from the Duplicate Records file (#15). It will display the number of duplicates per every 100 points. For example: there may be 10 patients with a score between 100 and 199. A NO SCORE means that the pair of potential duplicates had no score (no activity in the last three years). The total entries for the Patient file (#2) and the Duplicates Records file (#15) are also displayed.

The example below shows that the site has 184 duplicate record pairs where at least one of the 2 records has evidence of patient activity in the past 3 years.

```
Duplicate Record Count by CMOR Score                    Page: 1
                                                        Date: JUL 23,1998@16:05
------------------------------------------------------------------------------
This report is drawn from the Duplicate Record file (#15) with
CMOR scores from the PATIENT file, CMOR ACTIVITY SCORE field.

- If both members of a pair have a score of zero the pair is
  counted in the '0' group.
- If one or both members of the pair have a score greater than
  zero, that pair is counted in the group for the higher score.
- If neither member of the pair have a CMOR score, the pair is
  counted in the 'NO SCORE' group.

          Score Range                   Count
          -----------                   -----

          1 - 99                           24
          100 - 199                         6
          200 - 299                         2
          300 - 399                         3
          400 - 499                         7
          500 - 599                         3
          600 - 699                         2
          700 - 799                         2
          900 - 999                         1
          1000 - 1099                       1
          1100 - 1199                       4
          1200 - 1299                       1
          1300 - 1399                       1
```

```
          1400 - 1499                        1
          1500 - 1599                        2
          1600 - 1699                        1
          1700 - 1799                        2
          1800 - 1899                        1
          2100 - 2199                        1
          2300 - 2399                        1
          2400 - 2499                        2
          2500 - 2599                        1
          2600 - 2699                        1
          2800 - 2899                        1
          3000 - 3099                        1
          3200 - 3299                        1
          3500 - 3599                        1
          7400 - 7499                        1
          7700 - 7799                        1
          NO SCORE                         108

TOTAL Potential Duplicates (15):           184
TOTAL Patients (2):                      77160..
```

Duplicate Record Statistics

This option provides the user with the percentiles of the patients in the various status categories for merge and verification status.

```
Select CIRN Master of Record Menu Option: STAT  Duplicate Record Statistics
Duplicate Record File Statistics Scan

Requested Start Time: NOW// <RET> (JUL 08, 1998@13:29:07)
  Task# 201539 queued to run.
```

When the scan is completed, you will receive a mail message similar to the following:

```
Subj: Duplicate Record Counts: ALBANY, NY  [#93979] 08 Jul 98 13:29  13 Lines
From: POSTMASTER  in 'IN' basket.   Page 1  **NEW**
-------------------------------------------------------------------------------

Duplicate Record (^DPT) Statistics              Run Date: JUL
8,1998@13:29:11

ALBANY, NY (500)

Counts by:  Merge Status and Match Percentile:

    Merge Status: READY
      Percentile: 80          9
      Percentile: 90          23
      Percentile: 100         13

    Merge Status: MERGED
      Percentile: 100         4

    Merge Status: UNKNOWN
      Percentile: 60          27
      Percentile: 70          37
      Percentile: 80          42
      Percentile: 90          16
      Percentile: 100         13


  Counts by:  Verification Status and Match Percentile:
```

```
    Verification Status: POTENTIAL DUP., UNVERIF
      Percentile: 60          27
      Percentile: 70          37
      Percentile: 80          36
      Percentile: 90          1
      Percentile: 100         1

    Verification Status: REQUIRES RESOLUTION
      Percentile: 80          6
      Percentile: 90          15
      Percentile: 100         12

    Verification Status: VERIFIED DUPLICATE
      Percentile: 80          9
      Percentile: 90          23
      Percentile: 100         17

Select MESSAGE Action: IGNORE (in IN basket)// <RET>
```

CIRN Patient Admin User Menu

This option provides the Patient Admin Coordinator with the Patient Admin User options. They are discussed in the Patient Admin User Menu chapter of this manual.

Patient Audit Log Reports

Patient Audit File Print
Treating Facility List Statistics

Patient Audit File Print

This option prints information stored in the Audit file (#1.1) for fields being audited in the Patient file (#2). For a specified date range, you can view all audited fields or selected fields.

If selected fields are viewed, you can choose to see data for all or selected patients. If all audited fields are viewed, you must choose the patients to examine.

The report prints the patient name and DFN, date/time the field was edited, the user who made the change, the field edited, the old value, and the new value. The right margin for this report is 80.

EXAMPLE: Patient Audit File Print

```
Select Patient Audit Log Report Option: 2  Patient Audit File Print

This option prints information stored in the AUDIT file (#1.1)
for fields being audited in the PATIENT file (#2).  For a specified
date range, you can view all audited fields or selected fields.

If selected fields are viewed, you can choose to see data for all or
selected patients.  If all audited fields are viewed, you must choose
the patients to examine.

Do you want to see (A)LL or (S)ELECTED audited fields? A// <RET> LL

Select PATIENT: SAMPLE,PATIENT           11-08-32     123456789     NO
KOREAN     NSC VETERAN
Select PATIENT: <RET>

Enter date range for data to be included in report.
Beginning Date:  10-15-98  (OCT 15, 1998)
Ending Date:  11-1-98  (NOV 01, 1998)

The right margin for this report is 80.

DEVICE: <RET>

PATIENT AUDIT LIST at SAMPLE VAMC on Dec 02, 1998@15:07         Page: 1
Date Range: Oct 15, 1998 to Nov 01, 1998

Date/Time Edited    Field Edited                    Edited By
                    Old Value / New Value
------------------------------------------------------------------

==> SAMPLE,PATIENT  (DFN #7654321)

Oct 29, 1998@15:49  INTEGRATION CONTROL NUMBER     MOUSE,MINNIE
                    <no previous value> / 218092

Oct 29, 1998@15:49  ICNCHECKSUM                    MOUSE,MINNIE
                    <no previous value> / 10017

Oct 29, 1998@15:49  LOCALLY ASSIGNED ICN           MOUSE,MINNIE
                    <no previous value> / YES

Oct 29, 1998@15:49  CIRN MASTER OF RECORD          MOUSE,MINNIE
                    <no previous value> / TAMPA, FL
```

Treating Facility List Statistics

This option prints a statistical breakdown of the entries in the Treating Facility List file (#391.91). Data is available for the following categories.

- Number of unique patients
- Number of patients assigned to each site
- Number of single site patients for each site
- Number of shared patients

EXAMPLE: Treating Facility List Statistics

```
Select Patient Audit Log Report Option: 3  Treating Facility List Statistics

This option prints a statistical breakdown of the entries in the
TREATING FACILITY LIST file (#391.91).

The right margin for this report is 80.


DEVICE: <RET>


TREATING FACILITY LIST STATISTICS                                Page: 1
Printed at TAMPA, FL on Dec 02, 1998@15:25
------------------------------------------------------------------------

Total single-facility patients:
===============================
GAINESVILLE                                          55036
TAMPA, FL                                           210097

Total patients found for each facility:
=======================================
GAINESVILLE                                          62691
TAMPA, FL                                           217752


Total number of shared patients:                      7655
Total number of unique patients:                    272788


Enter RETURN to continue or '^' to exit:
```

Subscription Status Inquiry

Select CIRN Patient Admin Coordinator Menu Option: **INQ Subscription Status Inquiry**

This option is used to find out what subscriptions there are to a patient's record.

```
Select PATIENT NAME: Veteran,John Q
 VETERAN,JOHN Q    05-05-55     444444444     NO     NSC VETERAN
NUMBER: 85
DESTINATION: @VABAY                     LOGICAL LINK: VABAY
  TYPE: Patient Descriptive Only
  CREATION DATE/TIME: APR 19, 1999@11:55:16
  ACTIVATION DATE/TIME: MAR 22, 1999@16:30:32
MODIFICATION DATE/TIME: MAR 22, 1999@16:30:32
MODIFICATION DATE/TIME: APR 16, 1999@18:15:15
  LAST CREATION DATE/TIME: MAR 22, 1999@16:30:32
  LAST ACTIVATION DATE/TIME: MAR 22, 1999@16:30:32
  LAST SUBSCRIPTION TYPE: Patient Clinical and Descriptive
MODIFICATION DATE/TIME: APR 19, 1999@11:55:16
  LAST CREATION DATE/TIME: APR 16, 1999@18:15:15
  LAST ACTIVATION DATE/TIME: MAR 22, 1999@16:30:32
  LAST SUBSCRIPTION TYPE: Patient Descriptive Only
```

Master Patient Index Menu

The Master Patient Index menu belongs to the Master Patient Index Application and resides on the MPI/PD menu. It provides the means to deal with special circumstances that may arise in the day-to-day environment.

Single Patient Initialization to MPI
Display Only Query
Inactivate Patient from MPI
Local/Missing ICN Resolution Background Job

Single Patient Initialization to MPI

This option is used to initialize an individual existing patient to the MPI in order to get an ICN and CMOR assigned. The preferred way to accomplish this, however, is through the PIMS options:

- Register a Patient [DG REGISTER PATIENT]
- Load/Edit Patient Data [DG LOAD PATIENT DATA]
- 10-10T Registration [DGRPT 10-10T REGISTRATION]

```
Select Master Patient Index Menu Option: SINgle Patient Initialization to MPI
Select PATIENT NAME: Veteran,John Q
09-14-54     222558888     YES     SC VETERAN


Attempting to connect to the Master Patient Index in Austin...
Patient was not found in the MPI...
Adding Patient to Master Patient Index...
```

Display Only Query

This option allows users to query the MPI in Austin for all known data about a patient. The patient may or may not be currently in the Patient file. The MPI will return Patient Not Known at the MPI, a list of potential matches along with all known data, or an exact match along with all known data.

```
Select Master Patient Index Menu Option: DISplay Only Query
Is Patient in the PATIENT file? ? YES// <RET>
Patient Name: VETERAN,JANE Q 01-01-11     111111111     NO
 NON-VETERAN (OTHER)

Attempting to connect to the Master Patient Index in Austin...

Found One Match

Name: VETERAN,JANE Q
SSN: 111111111           Gender: F
Integration Control Number (ICN): 1000111111
Date of Birth: 01-01-1911     Date of Death:
CMOR: BAY PINES
```

If you answer, "NO" to the prompt "Is Patient in the Patient file?", you will also be asked for the patient's SSN and Date of Birth.

```
Select Master Patient Index Menu Option:  Display Only Query
Is Patient in the PATIENT file? ? YES// n  NO
PATIENT NAME (last,first middle): VETERAN,JANE Q
9 Digit SSN (No Dashes): 111111111
Date of Birth:  1-01-11  (JAN 1, 1911)

Attempting to connect to the Master Patient Index in Austin...

Found One Match


Name: VETERAN,JANE Q
SSN: 111111111           Gender: F
Integration Control Number (ICN): 1000111111
Date of Birth: 01-01-1911     Date of Death:
CMOR: BAY PINES
```

Inactivate Patient from MPI

This option creates a message to send to the MPI to inactive the ICN for an individual patient. The site making the request must be the CMOR and the patient can have no other known treating facilities.

NOTE: This option is to be used with caution. It should only be used to remove "test patients" that went to the MPI at the Austin Automation Center (AAC) by mistake.

Local/Missing ICN Resolution Background Job

This option will start a background job to resolve local and missing ICNs against the MPI.

Message Exception Menu

Members of the RG CIRN DEMOGRAPHIC ISSUES mail group are automatically notified of problems relating to data. It is recommended that Patient Administration personnel (i.e., Automated Data Processing Application Coordinator (ADPAC) and/or Coordinators, etc.) be made members of this mail group.

The options on this menu are used to resolve exceptions that occur when your data does not match data provided to the MPI by another facility. They also provide the ability to purge duplicate entries, resolved entries over 30 days old, and entries for patients with names beginning with "ZZ" from the CIRN HL7 Exception Log file (#991.1). Regular purging provides you with the most up-to-date information on the List Manager screen. If you feel that waiting for the purge to complete is too time consuming, you can ask your Information Resource Management (IRM) service to schedule the background job CIRN Exception Purge [RG EXCEPTION PURGE] via TaskMan to run once a week at an off-hours time that does not conflict with backups.

MSG Message Exception Menu ... [RG EXCEPTION MENU]
View Potential Match Patient [RG EXCEPTION POTENTIAL MATCH]
CIRN Exception Handling [RG CIRN EXCEPTION HANDLING]
Treating Facility Inquiry [RG EXCEPTION TF INQUIRY]

View Potential Match Patient

This option prints a list of patients that had multiple potential matches on the MPI and need review in order to be initialized to the MPI. None of these patients will have been assigned an ICN or a CMOR.

```
Select Message Exception Menu Option: view Potential Match Patient

This report prints a list of patients who have been identified as having
multiple Potential Matches on the Master Patient Index (MPI) and who haven't
yet been resolved using the option "Single Patient Initialization to MPI".
Status is current as of the date/time the report is generated.

This data is pulled from the CIRN HL7 EXCEPTION LOG file (#991.1).
Prior to producing the report, duplicate POTENTIAL MATCH patients will be
purged from the file.

...one moment please..

0 duplicate patient entries for POTENTIAL MATCH exceptions were identified
and deleted from the CIRN HL7 EXCEPTION LOG file (#991.1).

The right margin for this report is 80.

DEVICE: HOME// <RET>


PATIENT LIST of Potential Matches to be Resolved                    Page: 1
Printed at ALBANY, NY on Aug 08, 2000@17:09

Patient Name                              SSN          DOB               DFN
------------------------------------------------------------------------------

No patients found who need to be resolved to the MPI.
```

CIRN Exception Handling

Upon entering the option, you will be told when the last purge took place and will be asked if you would like to run the purge now. If you choose to purge, you will have to wait a few minutes before using the CIRN Exception Handling option.

```
CIRN EXCEPTION HANDLING       Nov 04, 1999 11:06:11        Page:  1 of  1
CIRN Exception Handling

The CIRN Exception Purge process last ran Mar 27, 2000@09:15:31
Do you want to run the CIRN Exception Purge process now? NO// <RET>

    Patient               SSN        Date Rec'd        Exception
 1  SERIOUS,SAM         111111111   11/02/99    SSN Match Failed
 2  RUGGED,ROBERT       222222222   11/02/99    SSN Match Failed
 3  MERRY,MARY          333333333   11/02/99    SSN Match Failed
 4  MERRY,MARY          333333333   11/02/99    Required field(s) Date of
 5  JOLLY,JAMES A       444444444   11/02/99    Required field(s) Date of
```

```
 6  CJOLLY,JAMES B       555555555   11/02/99    Name Doesn't Match
 7  JOLLY,JAMES B        555555555   11/02/99    Potential Matches Returned
 8  BURLY,BENJAMIN       666666666   11/02/99    Potential Matches Returne
 9  ROWDY,ROBERT         777777777   11/02/99    Death Entry on Vista not


          Enter ?? for more actions
SD  Sort Exceptions by Date             VT  View Selected Exception Type
SN  Sort by Patient Name                SE Select Exception
ST  Sort by Exception Type

Select Action:Quit// VT   Select Exception Type to View
Enter an exception type to view: SSN Match Failed
```

This option gives you a list of exceptions that have not yet been processed. You can sort the list by date (default), by patient, or by exception type. You can also choose to view only those of a selected exception type. The first three actions merely change the order that the patients are listed on the screen.

VT Select Exception Type to View

The VT Select Exception Type to View action allows you to see only those of the exception type that you choose.

```
CIRN EXCEPTION HANDLING       Nov 04, 1999 11:15:21          Page:    1 of  1
CIRN Exception Handling

    Patient              SSN         Date Rec'd        Exception
 1  SERIOUS,SAM          111111111   11/02/99    SSN Match Failed
 2  RUGGED,ROBERT        222222222   11/02/99    SSN Match Failed
 3  MERRY,MARY           333333333   11/02/99    SSN Match Failed


          Enter ?? for more actions
SD  Sort Exceptions by Date               VT  Select Exception Type to View
SN  Sort by Patient Name                  SE Select Exception
ST  Sort by Exception Type
Select Action:Quit//<RET>
```

SE Select Exception

Using the SE Select Exception action to select a specific exception brings you to a screen with more detailed information on the exception as well as the actions to perform Patient Audit, Patient Inquiry, Hinq Inquiry, MPI Display Only Query, Single Patient Initialization to the MPI, Edit Patient Data, Update Status to Processed, and Treating Facility Inquiry. Patients with exceptions dealing with death entry discrepancies may have a national ICN (begins with a 1) and a CMOR. Patients with other types of exceptions will only have local ICNs (begins with your station number) and will not have a CMOR.

```
CIRN EXCEPTION HANDLING       Nov 04, 1999 11:15:21          Page:    1 of  1
CIRN Exception Handling

    Patient              SSN         Date Rec'd        Exception
 1  SERIOUS,SAM          111111111   11/02/99    SSN Match Failed
 2  RUGGED,ROBERT        222222222   11/02/99    SSN Match Failed
 3  MERRY,MARY           333333333   11/02/99    SSN Match Failed
          Enter ?? for more actions
SD  Sort Exceptions by Date               VT  Select Exception Type to View
SN  Sort by Patient Name                  SE Select Exception
ST  Sort by Exception Type
Select Action:Quit// SE   Select Exception
Select :  (1-3): 1
```

```
CIRN EXCEPTION ACTIONS        Nov 04, 1999 11:30:33          Page:    1 of  1
CIRN EXCEPTION HANDLING ACTIONS.

    Exception Data
 1   Name:   SERIOUS,SAM
 2    SSN:   111111111
 3    DOB:   AUG 22,1941
 4    DFN:   2
 5    ICN:   1001111111
 6    Date of Death:
 7   Exception Type:     SSN Match Failed
 8   Exception Date:     Nov 02, 1999
 9   Exception Status:   NOT PROCESSED


          Enter ?? for more actions
AUD  Patient Audit                        SPI  Single Patient Init to MPI
PI   Patient Inquiry                      ED   Edit Patient Data
HI   Hinq Inquiry                         UPD  Update Status to Processed
DO   MPI Display Only Query               TF   Treating Facility Inquiry
Select Action:Quit// <RET>
```

When the exception has been processed, meaning that you have verified data, corrected where necessary, and contacted the CIRN Master of Record (CMOR) site if necessary, then depending on the exception, use either the Single Patient Init to the MPI, or Update the Status to Processed action and the exception will no longer appear on the exception list.

For detailed information on how each exception type should be resolved, see the Exception Handling document on the MPI/PD web site at http://vista.med.va.gov/mpi_pd/index.html.

Treating Facility Inquiry

The Treating Facility Inquiry shows you patient information that is useful when dealing with exceptions, Patient Data Reviews, and CMOR Change Requests.

```
This report prints CIRN PD/MPI Data for a selected patient.
The information displayed includes the Integration Control
Number (ICN), CIRN Master of Record (CMOR), CIRN Activity
Score, Subscription Control Number, Treating Facility and
Subscriber lists, CMOR History and CMOR Change Request History.

The information is pulled from the Patient (#2) file, Treating
Facility List (#391.91) file, Subscription Control (#774) file
and MPIF CMOR Request (#984.9) file.

Patient lookup can be done by Patient Name/SSN or by ICN.
Select PATIENT: `2  SERIOUS,SAM      *SENSITIVE*    *SENSITIVE*     NO
NON-VETERAN (OTHER)

                              ***WARNING***
                          ***RESTRICTED RECORD***


CIRN Data for: SERIOUS,SAM  (DFN #X)    PATIENT MARKED SENSITIVE.
Printed Feb 15, 2001@12:19 at ALBANY
================================================================================
SSN    : 111111111                          ICN : 1001168047
Sex    : FEMALE                             CMOR: ALBANY
Claim #: 350471105                          CIRN Activity Score   : 0
Date of Birth: Jan 01, 1942                 Subscription Control #: 116
Date of Death: JUN 1,1997@15:30
Address: 1100 MAIN ST
         BUTLER, MARYLAND 16001
Phone #: 555-1212

Enter RETURN to continue or '^' to exit: <RET>

Treating Facilities:  Station:  DT Last Treated         Event Reason
--------------------  --------  ---------------         ------------
ALBANY                500       JUN 7,1985@15:00        PATIENT ADMISSION
DETROIT               553       none found              none found

Subscribers:                    Termination Date
------------                    ----------------
DETROIT                         none found


Enter RETURN to continue or '^' to exit: <RET>

ICN History:
------------


CMOR History:
--------------
ALBANY - changed SEP 15,2000@14:12:20
DETROIT - changed OCT 17,2000@10:45:18
500TEMP - changed OCT 17,2000@10:45:26
```

```
CMOR Change Request History:
----------------------------
REQUEST #500-38 - SENT OCT 30,2000
    Type of Request: TRANSFER TO DETROIT
    Status         : REQUESTED


Enter RETURN to continue or '^' to exit:<RET>
```

MPI/PD Status Display

The MPI/PD Status Display option calculates and presents the following data:

- the number of unresolved exceptions in the CIRN HL7 Exception Log file (#991.1) for the MPI/PD related entries (e.g., internal entry numbers 209, 213-218) in the CIRN HL7 Exception Type file (#991.11),
- the number of unresolved exceptions in the Patient Data Exception file (#391.98) with an Exception Status file (#391.984) value of ACTION REQUIRED, DATA EXAMINED or BEING REVIEWED,
- the number of entries in the MPIF CMOR Request file (#984.9) with a value of OPEN, REQUESTED, PENDING APPROVAL, APPROVED or DISAPPROVED in the Status (#.06) field ,
- the condition of the Update Batch Job For HL7 V. 2.3 [VAFC BATCH UPDATE] and Local/Missing ICN Resolution Background Job [MPIF LOC/MIS ICN RES] background jobs in the Option Scheduling file (#19.2),
- the state of the CIRN Event Queue processor,
- the condition of the Stop CIRN Messaging (#16) field in the CIRN Site Parameter file (#991.8), and
- the Audit status of the Name (#.01) field in the Patient file (#2) .

The Exception Handler and Patient Data Review numbers indicate how up-to-date a facility is in exception resolution. The CMOR request numbers specify how many requests for change of CMOR have been sent and their resulting status. This data can be useful in reducing the number of exceptions.

```
Select CIRN Patient Admin Coordinator Menu Option: DSP  MPI/PD Status Display


Exception Handler Entries:
--------------------------
SSN Match Failed                                      5
Death Entry on Vista not in MPI                       1
Potential Matches Returned                           14

Patient Data Review Entries:
----------------------------
ACTION REQUIRED                                     214
DATA EXAMINED                                        38

CMOR Requests Status:
---------------------
REQUESTED                                             4
APPROVED                                              6
```

```
The VAFC BATCH UPDATE background job is scheduled for FEB 13,2001@07:20.
The MPIF LOC/MIS ICN RES background job is scheduled for FEB 13,2001@20:00.
CIRN Event Queue processor is currently RUNNING.
STOP CIRN MESSAGING currently set to SEND MESSAGES.
Audit on NAME (#.01) field of PATIENT (#2) file set to YES, ALWAYS
```

The VAFC Batch Update background job should always be running unless it has been unscheduled for patch installation or similar purposes. If it is not scheduled, use the TaskMan option Schedule/Unschedule Options [XUTM SCHEDULE], and schedule it to run every ten minutes.

The MPIF Local/Missing ICN Resolution background job should be scheduled to run weekly, at some time during the night.

The CIRN Event Queue processor should always be set to RUNNING. If the state is NOT RUNNING, use the Start CIRN Event Queue [RGEQ START] option to re-start it.

The Stop CIRN Messaging (#16) field in the CIRN Site Parameter file (#991.8) should always be set to SEND MESSAGES.

Audit on the Name (#.01) field in the Patient file (#2) should be set to YES, ALWAYS. If necessary, this can be re-set using VA FileMan, Other Options, Auditing, Turn Data Audit On/Off.

Glossary

Active Patients	Patients who have been seen at a site within the past three years.
ADT (Admission Discharge and Transfer)	A part of the Patient Information Management System (PIMS).
ADT/HL7 Pivot File	Changes to any of the fields of patient information will be recorded and an entry created in the ADT/HL7 Pivot File. When an update to a patient's treating facility occurs, this event is added to the ADT/HL7 Pivot file and marked for transmission. A background job will collect these updates and broadcast the appropriate HL7 message (A08 Patient Update or MFN Treating Facility Updates). This is a ADT HL7 message designed for MPI/PD.
Batch Messages	There are instances when it is convenient to transfer a batch of HL7 messages. Common examples related to MPI/PD are queries sent to the MPI for an ICN during the initialization process, the resolution of Local or Missing ICNs, and CMOR Batch Comparisons. Such a batch could be sent online using a common file transfer protocol.
Bulletins	MPI/PD generates messages and bulletins to alert the user to problems that occur in generating or processing HL7 messages. The CIRN Exception Handling menu contains options to manage the problems.
CIRN Master of Record (CMOR	The CMOR site is the designated "owner" of the patient's descriptive and clinical data. A patient has only one CMOR at a time, but the CMOR can change. Initially, the MPI assigns the CIRN Master of Record based upon the first site at which the MPI encounters the patient. The designation of a site as the CMOR for a patient does not provide "workload credit" or any other distinction. This is a new field in the Patient file.
Clinical Patient Record System (CPRS)	CPRS provides a computer-based patient record and organizes and presents all relevant data on a patient in a way that directly supports clinical decision-making. CPRS integrates the extensive set of clinical and administrative applications available within **V*IST*A**.
Clinical Subscriber	The category of clinical subscriber is reserved for future use.
CMOR Activity Score	The CMOR Activity Score reflects a patient's activity at a site over the past 3 years. It is used during initialization with the MPI to identify active patients. It is later used in determining the logical CMOR for a patient. The CMOR activity score is stored in the Patient file along with the date last calculated. It can be recalculated as needed. Following the initialization with the MPI, a site runs an option that identifies the shared patients for which it is **not** the CMOR. An option is provided to send messages to the CMOR sites in order to compare the CMOR scores and reassign the CMOR if that action appears to be appropriate. Changing the CMOR requires agreement between the two sites involved.

Date of Death	A patient may be entered as deceased at a treating facility. If a shared patient is flagged as deceased, an RG CIRN DEMOGRAPHIC ISSUES bulletin is sent to each subscribing site telling where, when, and by whom the deceased date was entered. Each site can then review whether the patient should be marked as deceased at their site.
Demographic Data	Identifying descriptive data about a patient, such as, name, sex, date of birth, marital status, religious preference, SSN, address, etc.
Descriptive Subscriber	Descriptive subscribers receive key changes to patient demographic information including CMOR changes and updates to the subscription and treating facilities lists.
Direct Connect	The Direct Connect is a real-time TCP/IP connection to the Master Patient Index to allow for an immediate request for an ICN. It is activated when using and the following PIMS options: Register A Patient, Load/Edit Patient Data, and 10-10T Registration processes in PIMS and when using the following MPI options: MPI Single Patient Initialization Display Only Query option .
Eligibility Codes	Codes representing the basis of a patient's eligibility for care.
Health Level 7 (HL7)	A national level standard for data exchange in all healthcare environments regardless of individual computer application systems.
Health Level 7 (HL7) **V***IST***A**	A messaging system developed as a **V***IST***A** software package that follows the HL7 Standard for data exchange.
HINQ (Hospital Inquiry)	The Hospital Inquiry (HINQ) module provides the capability to request and obtain veteran eligibility data via the VA national telecommunications network. Individual or group requests are sent from a local computer to a remote Veterans Benefits Administration (VBA) computer where veteran information is stored. The VBA network that supports HINQ is composed of four computer systems located in regional VA payment centers.
HL7 MFN Messages	An HL7 Update Treating Facility message type (Master File Notification [MFN]). When an update to a patient's treating facility occurs, this event is added to the ADT/HL7 Pivot file and marked for transmission. A background job will collect these updates and broadcast the HL7 MFN messages. This is an ADT HL7 message designed for MPI/PD.

Integration Control Number (ICN)	The Integration Control Number (ICN) is a unique identifier assigned to patients when they are added to the Master Patient Index. ICNs link patients to their records across VA systems. The ICN follows the American Society for Testing Materials (ASTM) E1714-95 standard for a universal health identifier.
MPI Initialization	The process of initializing a site's Patient file with the Master Patient Index (MPI). Initialization synchronizes Patient file information (for active patients) with the MPI and identifies facilities where the patient has been treated. This process transfers the Integration Control Number (ICN), CIRN Master of Record (CMOR), and Treating Facility list for each patient to the patient's record in the **V***IST***A** Patient file at all sites where the patient has been treated. It is also possible to initialize an individual patient to the MPI. This is done through menu options. The initial synchronization of patient file information (for active, shared patients) with the Master Patient Index and with the patient's treating facilities is an important step in the implementation of the MPI/PD software system.
Master Patient Index (MPI-Austin)	The MPI is the master index of all VHA patients. The MPI assigns and maintains unique national patient identifiers, Integration Control Numbers or ICNs, which link patients to their records across VHA systems. The MPI also assigns the initial CMOR (first site to identify the patient to the MPI). It contains patient's identifying descriptive information (e.g., name, SSN, date of birth, mother's maiden name, place of birth state, and place of birth city).
Master Patient Index (MPI - **V***IST***A**)	This software resides in **V***IST***A** and supports the Austin side of the MPI, as well as the CMOR (CIRN Master Of Record) change requests. MPI (**V***IST***A**) enables sites to query the MPI (Austin) for the: 1. assignment of ICN (i.e., Integration Control Number) and CMOR 2. inactivation of an ICN for a patient, and 3. known patient data on the MPI (Austin) Any updates to patient data are then sent to the MPI (Austin) and to sites where a patient has been seen. MPI (**V***IST***A**) also manages incoming and outgoing Change CMOR requests.
Message Segments	Each HL7 message is composed of segments. Segments contain logical groupings of data. Segments may be optional or repeatable. A [ ] indicates the segment is optional, the { } indicates the segment is repeatable. For each message category, there will be a list of HL7 standard segments and/or "Z" segments used for the message.
Non-CMOR Sites	Sites that are not the CMOR for a given patient but which nevertheless have an interest in the patient.

Patient Demographics (PD)	Identifying descriptive information about a patient. With MPI/PD, key demographic information for a patient is the same at each of the treating facilities where that patient is seen.
Patient Merge (also see Kernel Toolkit, Duplicate Record Merge: Patient Merge)	Patient Merge is a **V***IST***A** application that provides an automated method to eliminate duplicate patient records within the **V***IST***A** database [i.e., the **V***IST***A** Patient file (#2)]. It consists of three steps: 1. search for potential duplicate record pairs, 2. review, verification, and approval of those pairs, and 3. the merge process
Pseudo-SSNs	False Social Security Numbers that are calculated internally to **V***IST***A** and can not be mistaken for valid SSNs because they end with a "P". Updating active patients' missing or pseudo-SSNs is necessary in order to interface properly with the MPI.
Registration Process	During a registration, if a patient does not have an ICN, the patient is checked against the entries in the MPI to determine if the patient already is established or needs to be added. The MPI may return a list of patients who are possible matches. If the patient is truly new and there are no potential matches in the MPI, the MPI will assign an ICN and assigns the requesting site as the CMOR. If the patient is already known at the MPI, the ICN and CMOR is returned and an HL7 message is sent to the CMOR to add this new facility to the list of Treating Facilities for this patient. At the CMOR site, A04 Registration HL7 messages are sent to the MPI and all sites where the patient is known. These messages update the date of last activity and any changes to the descriptive data. At a non-CMOR site, an A04 Registration HL7 message is sent to the CIRN Master of Record.
Score Calculation Date	Date when the CMOR Activity Score was last calculated. This is a new field in the Patient file (#2).
Segment Table Definitions	For each segment, the data elements are described in table format. The table includes the sequence number (SEQ), maximum length (LEN), data type (DT), required or optional (R/O), repeatable (RP/#), the table number (TBL #), the element name, and the **V***IST***A** description.
Sensitive Patient	A patient whose record contains certain information, such as political figures, employees, patients with a particular eligibility or medical condition may be deemed sensitive by a facility. If a shared patient is flagged as sensitive at one of the treating sites, a bulletin is sent to the RG CIRN DEMOGRAPHIC ISSUES mail group at each subscribing site telling where, when, and by whom the flag was set. Each site can then review whether the circumstances meet the local criteria for sensitivity flagging.
Shared Patient	A patient that is registered for care at more than one facility. The CMOR keeps the Treating Facility List and Subscription List updated every time a new

	facility where the patient has been seen identifies itself to the MPI. The CMOR then broadcasts the updated lists to all the other facilities that share this patient.
Subscriber	A subscriber is an entity that receives updates to a patient's data from other sites. Treating facilities have a subscription with an infinite expiration date implied. They may not deactivate from descriptive subscriptions. A treating facility, upon registration of a patient known elsewhere, automatically becomes a subscriber. Descriptive subscribers receive changes to patient demographic information including CMOR changes and updates to the subscription and treating facilities lists.
Subscription	The process used to identify the sites that will receive data updates for a patient.
Synchronized Patient Data	Key descriptive fields in the patient file that are updated in all the descriptive subscriber's patient files whenever the fields are edited by a subscriber.
Treating Facility	Any facility where a patient has applied for care, or has been added to the local Patient file (regardless of VISN) is placed on the Treating Facility List. This list is part of the synchronized patient descriptive data. Treating Facilities receive data updates for shared patients. They may not deactivate their subscription to descriptive (i.e., patient demographic) data. Changes to patient descriptive data that are identified at a treating facility trigger a message to the CIRN Master of Record. After review and acceptance, the CMOR broadcasts an update message to all treating facilities, subscribers, and the MPI.
Treating Facility List	A table of institutions at which the patient has received care. This list is used to create subscriptions for the delivery of patient clinical and demographic information between sites.
Trigger Events	An activity in **V*IST*A** that creates HL7 messages.
Z Segments	An HL7 custom segment format. Z segments are used when the standard HL7 V. 2.3 does not meet the needs to share data. Each Z segment must be approved by the HL7 Administrator within Technical Services.

Appendix A: MPI/PD Business Rules

Start-up (only)
A patient's CMOR will be the first treating site that identifies the patient to the MPI.

Duplicate ICNs
More than one patient in a single Patient file (#2) can not have the same ICN. For example, let's say that the MPI returned an ICN to your local Patient file for a patient who previously did not have one assigned. If that same ICN is currently assigned to a different patient in your local Patient file, an exception message is sent to the MPI EXCEPTIONS mail group, and the ICN, CMOR, and treating facilities list is not updated for this new patient.

CMOR changes
Receiving site must be a treating facility (patient must be registered there).

Update Messages
Descriptive data update messages are broadcast by the CMOR.

Institution File
A site can be in only one VISN at a time. A record in the Institution file can not have two parents of the same type.

A record in the Institution file cannot be a child and have children of its own.

MPI (Austin)
The MPI assigns national ICN and initial CMOR (first site to identify the patient to the MPI). The MPI accepts update messages only from the CMOR. The MPI maintains a copy of the treating facilities list but not the subscription list. Subscriber messages are not sent to the MPI.

Treating Facilities
Broadcast messages to add a treating facility for a patient will come only from the CIRN Master of Record (CMOR). The site requesting to be added sends a message to the CMOR, the CMOR broadcasts an A08 update message.

Subscriptions
All Subscribers to clinical data will be subscribers to descriptive data. A clinical subscriber can change to a descriptive category. Subscribers that are not designated as treating facilities may deactivate their subscription using an expiration date. Treating Facilities will be clinical subscribers unless they request descriptive only. Treating facilities may not deactivate from descriptive subscriptions.

Sites can only subscribe/unsubscribe themselves except in cases of automatic subscription (treating facility).

Descriptive subscription lists will be synchronized.

Patient Sensitivity
If a shared patient is flagged as sensitive at one of the treating sites, a bulletin is sent to the RG CIRN DEMOGRAPHIC ISSUES mail group at each subscribing site telling where, when, and by whom the flag was set. Each site can then review whether the circumstances meet the local criteria for sensitivity flagging. If the site chooses to change the patient to a sensitive status, the option to do so would be used and then a bulletin would be sent to the mail group established in the PIMS package for notifying users of a sensitive patient change.

Date of Death
A patient may be entered as deceased at a treating facility. If a shared patient is flagged as deceased, a bulletin is sent to the RG CIRN DEMOGRAPHIC ISSUES mail group. The bulleting tells where the deceased date was entered and the date the patient died. Each site can then review whether the patient should be marked as deceased at their site.

Appendix B - Patient Data Review

FORCED UPDATE:

Name

DATA TO REVIEW:

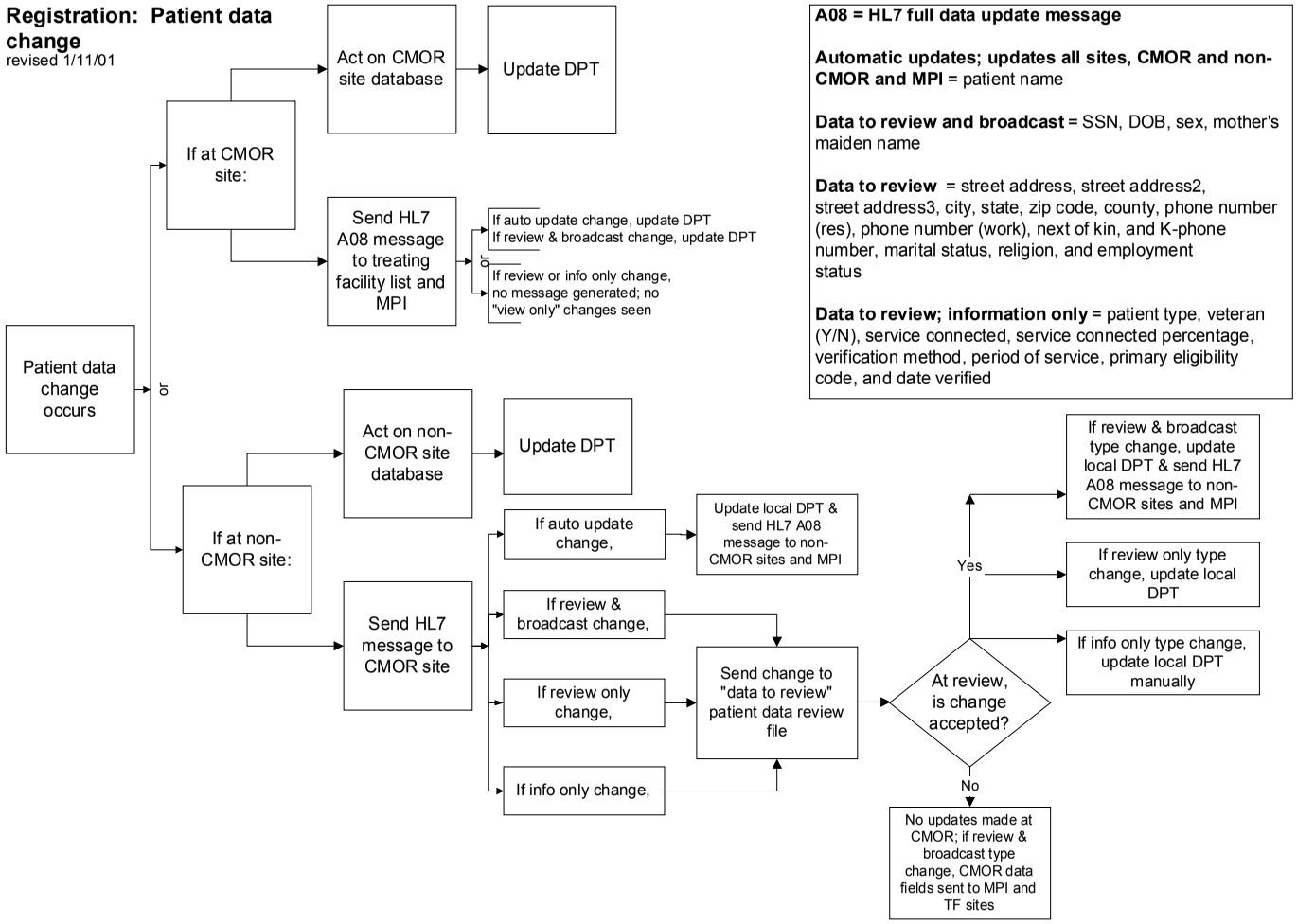
Street Address	Phone Number (Res.)
Street Address (2)	Phone Number (Work)
Street Address (3)	Next of Kin Name
City	K-Phone Number
State	County
Zip-Code	
**Social Security Number	**Date of Birth (DOB)
Date of Death (DOD) ***	**Sex
Marital Status	**Mother's Maiden Name
Religion	Employment Status

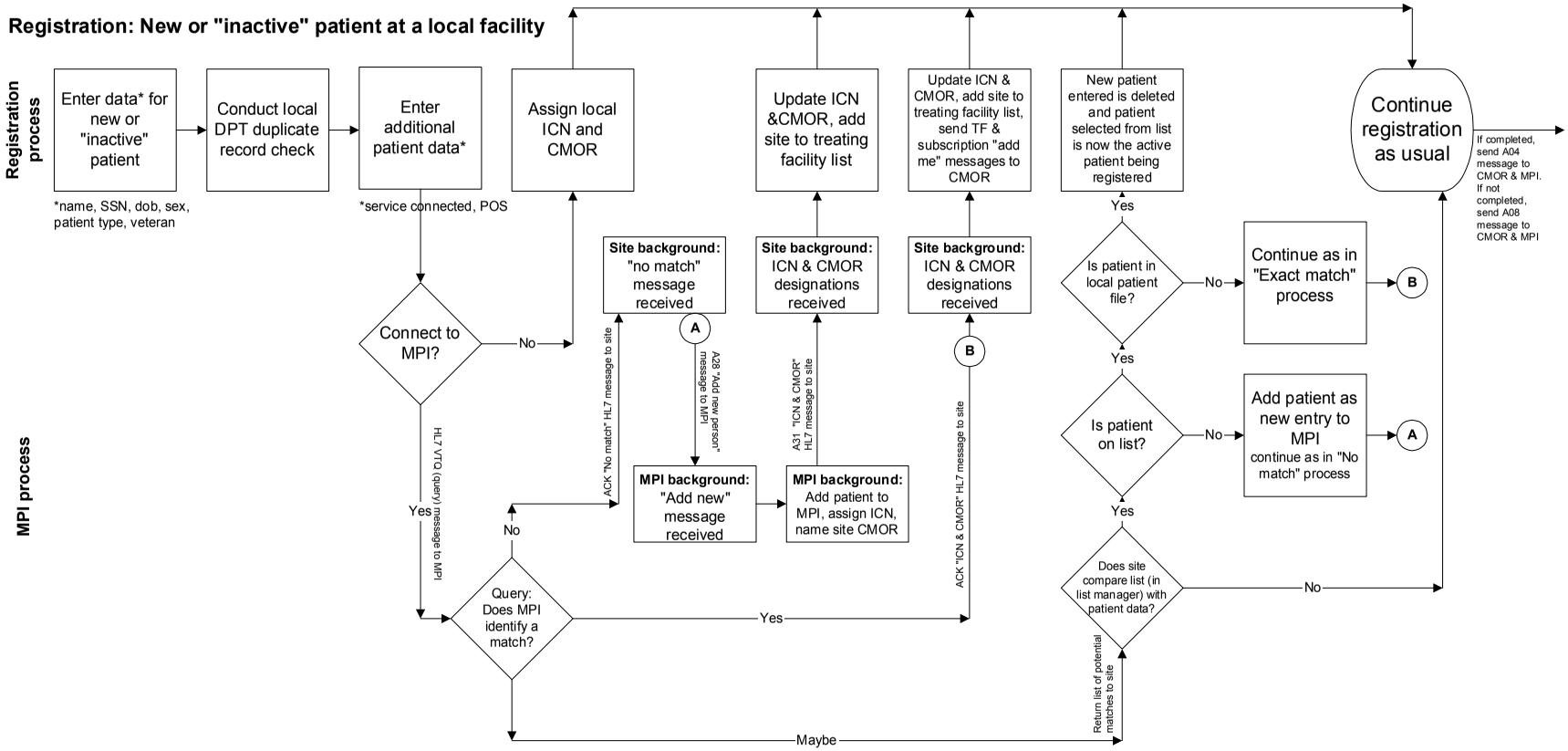
**When the CMOR updates these fields, they are synchronized at all treating facilities and the MPI.

DISPLAY ONLY CHANGES:

Patient Type	Period of Service
Veteran (Y/N)	Primary Eligibility Code
Service Connected	Date Eligibility Verified
Service Connected Percentage	Verification Method
Who Verified	

Appendix C - Flow Charts




Registration: New or "inactive" patient at a local facility
Registration process
MPI process
Enter data* for new or "inactive" patient
*name, SSN, dob, sex, patient type, veteran
Conduct local DPT duplicate record check
Enter additional patient data*
*service connected, POS
Assign local ICN and CMOR
Update ICN &CMOR, add site to treating facility list
Update ICN & CMOR, add site to treating facility list, send TF & subscription "add me" messages to CMOR
New patient entered is deleted and patient selected from list is now the active patient being registered
Continue registration as usual
If completed, send A04 message to CMOR & MPI. If not completed, send A08 message to CMOR & MPI
Connect to MPI?
No
Yes
HL7 VTQ (query) message to MPI
Site background: "no match" message received
A
ACK "No match" HL7 message to site
A28, "Add new person" message to MPI
MPI background: "Add new" message received
Site background: ICN & CMOR designations received
A31 "ICN & CMOR" HL7 message to site
MPI background: Add patient to MPI, assign ICN, name site CMOR
Site background: ICN & CMOR designations received
B
ACK "ICN & CMOR" HL7 message to site
Is patient in local patient file?
No
Continue as in "Exact match" process
B
Yes
Is patient on list?
No
Add patient as new entry to MPI
continue as in "No match" process
A
Yes
Does site compare list (in list manager) with patient data?
No
Yes
Return list of potential matches to site
Query: Does MPI identify a match?
No
Yes
Maybe

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